

<b>ACADEMICS:</b>	University of Alberta MSc in Computing Science, 3.9 GPA	'23
	- 3 publications on AI in games, Nominated Best Paper (Top 3 of 75+ submissions), details in Appendix	
	University of Alberta BSc in Electrical Engineering with the Co-op Option	'08
	- Average Graduating GPA of 3.9 (last 2 years), Graduated with Distinction (3.7 overall)	

**TECHNICAL WORK SHARED IN THE MEDIA (Full list in Appendix):**

3D Map + Storytelling + Demographics tool, on Taproot Edmonton, CBC Edmonton News, CityNews, and Radio Active	'22
Citations of TrackTheRecovery.org on the U.S. economy from COVID in real time, by Vox, NPR and Bloomberg	'20
Worked as tech architect, lead developer on OpportunityAtlas.org that was released to New York Times and NPR	'18
"Edmonton data fanatic animates a century of city growth in 6 seconds", CBC	'18
"Population growth visualized: Century of sprawl in Edmonton", Global News	'18
"Mapping expert makes detailed census data available to all Edmonton election candidates", Edmonton Journal	'17
"Hundreds of thousands of polygons rendered on the fly", Mapbox's Blog	'17
Dynamic map of over 300k buildings by property assessment values, Edmonton Journal and MetroNews (now The Star)	'17
"Edmontonian creates app to help people in need find Edmonton services", MetroNews (now The Star) and Global News	'15

**MORE RECENT EXPERIENCE (Full list in Appendix):**

- Completing MSc in Computing Science at the University of Alberta + Year of Various Projects + Contract Work	'22-'23
- Made research on using AI to determine difficulty in games understandable, published and nominated for Best Paper	
- Projects like 500km of Google Streetview, growing the Canadian Open Data Society, and visualization contract work	
- Darkhorse Analytics (Edmonton), CTO & Director	Feb '12 – May '22
- Created many interactive visualizations for key clients like Proctor & Gamble to impress others and make executive decisions	
- Handled backend work on multithreaded, multi-instance server code with load balancing, auto scaling, CDN, etc	
- Created, helped generate and handle viral content (multiple reddit frontpages, millions of impressions)	
- Lead technical strategy, hired and managed our development team. Present + teach visualizations, see "Talks" below	
- Collaborated as co-owner to help grow Darkhorse Analytics into a multi-million dollar, internationally consulting firm	
- Quick Highlights of Prior Roles (More details in Appendix)	Before '12
- Interned at Microsoft (3x), including Microsoft Startup Labs (now in Microsoft Research) managing skunkworks projects	
- Started a company that took ~\$40k as runner up for Alberta-wide Business Plan+Pitch Competition, failed but got acqui-hired	

**MORE RECENT LEADERSHIP/VOLUNTEERING EXPERIENCE (Full long list in Appendix):**

Canada MSF (Multi-Stakeholder Forum) Civil Society Member on Open Government	Mar '23 – Ongoing
Chair, Canadian Open Data Society	Nov '22 – Ongoing
Founding Director (Board), then President, Canadian Open Data Society	Nov '19 – Nov '21, Nov '21 – '22
Co-organizer, BetaCityYEG, Edmonton's civic tech meetup	Oct '18 – Ongoing
City of Edmonton Open Data Citizen Advisory Group Member	Sep '17 – Sep '20
Data Director, Cabinet, the Re-elect Don Iveson for Mayor municipal campaign (he won, 72% of vote)	Jun '17 – Nov '17

**MORE RECENT TECHNICAL SKILLS HIGHLIGHT (Full list in Appendix):**

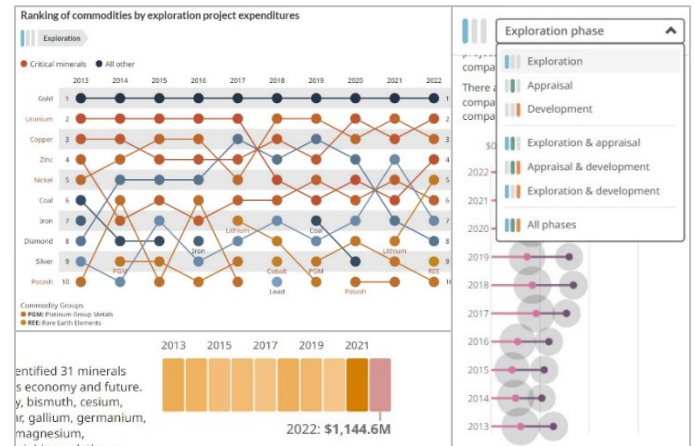
Mostly recently using JS, SvelteKit + Svelte framework, some Vue, d3.js and pixiJS + various JS libraries for visualizations, Python for data processing, Docker for containers, AWS (VCs, load balancing, R53, Cloudfront, some lambda etc). Familiar with mapping libraries. Not too worried about tech, pick things up quickly. Love collaborating to create apps/visualizations that delight people.

**MORE RECENT PRESENTATIONS, TALKS, WORKSHOPS (Full list in Appendix):**

"Generative AI Create-a-thon", Taught + ran hackathon, AI + Data Learning Series, Whitehorse, Yukon	'24
"Data, AI, and Art: Viral + Impactful Visualizations", AI + Data Learning Series, Whitehorse, Yukon	'24
"AI Goldilocks and the 3 Billion Puzzles", AAAI Conference on AI and Interactive Digital Entertainment, Salt Lake City	'23
"How to Use Visualization to Get Your Work Noticed (and Understood)", Alberta Machine Intelligence Institute Talent	'23
"AI & the Creative Impulse: An Opportunity & A Dilemma", Edmonton Public Library, Capital City Art	'23
"Exploring ChatGPT *Live*, with Useful, Wacky, and Scary Examples", International Open Data Day at the EPL	'23
"From Idea to Perfect Pitching and Feedback" Data-Driven Entrepreneurship & Innovation Program, Whitehorse, Yukon	'22
Hands-on Workshops on d3 and Tableau, StudentDevCon (Conference for Post-Secondary Students)	'18, '19, '20, '21, '22
"(Top) 30 Visualizations that Blew My Mind and Will Inspire You" Canadian Open Data Summit, Virtual	'21
"Outcomes and Learnings from Five Years of Local Civic Tech Innovation and Engagement" Code For Canada Showcase	'19
"Achieving Sustainable, Transparent, and Efficient Outcomes with AI" Moderator, OGP Global Summit	'19
"Visualizing Python Data using Socket.io" EdmontonPY Meetup	'19
"Build your own Beautiful, Detailed, and Interactive Map in 4 Hours" Workshop, OpenVisConf, Paris	'18
"Mapping the Crisis in Affordable Housing" Speaker, Locate (Mapbox conference), San Francisco	'18

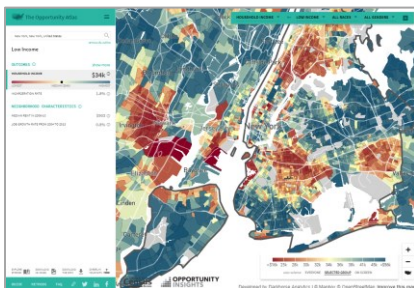
**AWARDS:**

- Winner, Unorthodox Prize, Hack-GPT Edmonton's LLM Hackathon (think ChatGPT) '23
- Winner, Single-Button Category, BCI (Brain Computer Interface) Game Jam 2022 '22
- Shortlist, Information is Beautiful Awards on [assess.dha.io](https://assess.dha.io) '18
- Winner, Best Overall and Audience Pick of Exchange.js Showcase (Edmonton's Javascript meetup) '17
- Winner, Edmonton's Open Data Hackathon '16
- 3<sup>rd</sup> Place, Battlehack Singapore Hackathon (of 40+ teams) '15
- Shortlist, Information is Beautiful Awards on [WorldChatClock.com](https://WorldChatClock.com) '14
- More details in Appendix: Winner, Microsoft-wide intern design competition. Outstanding service student award, etc Before '14

**HIGHLIGHTED + RECENT PROJECTS:****Natural Resources Canada (NRCan): Visualizations of mineral exploration and development activities in Canada (2024)**

The [Minerals Exploration and Development visualizations](#) were built to improve on the original [text data tables](#). First brought in as a contractor, I joined as a casual employee to help implement the designs with our team. I built/improved all but one chart, the animations, and recommended + implemented usability features.

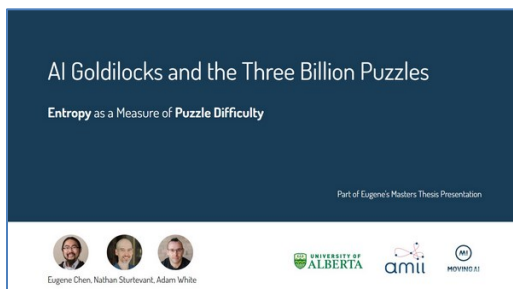
I'm very proud of this work. It's a user-friendly federal data site that checks off key government site requirements: fully bi-lingual, mobile and tablet friendly, and passes accessibility standards. It showcases what is possible to achieve with those requirements in mind, and I hope it inspires other departments.

**The Opportunity Atlas**

[OpportunityAtlas.org](https://OpportunityAtlas.org) helps answer questions on upward social mobility by visualizing the effect that location, race, and gender has had on outcomes like income and incarceration. It uses anonymous Census data on 20 million Americans from childhood to their mid-30s.

Given the size of data (800M+ datapoints), there were many performance challenges. As the lead developer and architect, I built it to near-instantly visualize the data dynamically.

This is a rare client project I have worked on that is available online: almost all my work is client-confidential, and I'm also very proud of the [potential life-changing impact](#) this has.

**Master of Science (MSc) Thesis Work**

From [posters to published papers](#), includes “the most beautiful slides I have ever and will likely ever to see in a thesis presentation.” - Supervisor

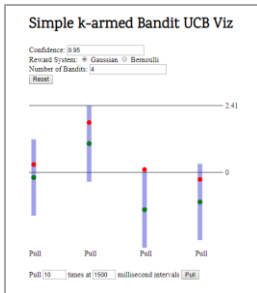
**This is YEG**

[Dashboard](#) combining 3D mapping, storytelling, census demographics, and making Tableau not look like Tableau.

**The MDP “Playground”**

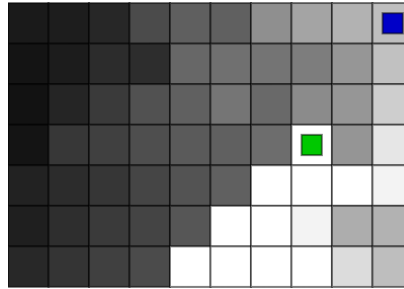
This web tool, [mdp.ai](#), also interfaces to agents with Python in 3 lines of code! Works as a JS library: [live demo](#).

## HIGHLIGHTED + RECENT PROJECTS (CONTINUED):



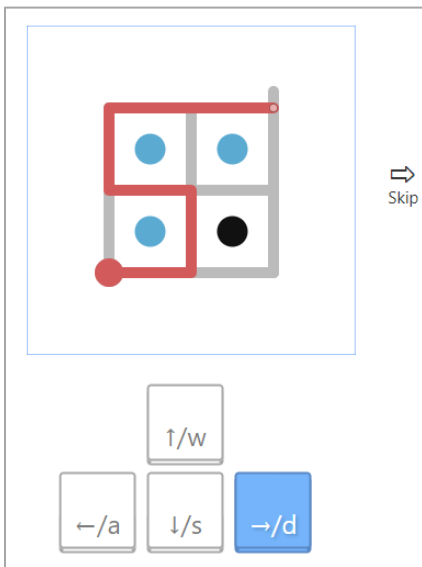
### A Simple k-armed bandit UCB Viz

Available on [mdp.ai/ucb](http://mdp.ai/ucb) (temp location), I spoke to a prof about algorithms he'd like to visualize and he mentioned this one. It took two evenings, done for fun.



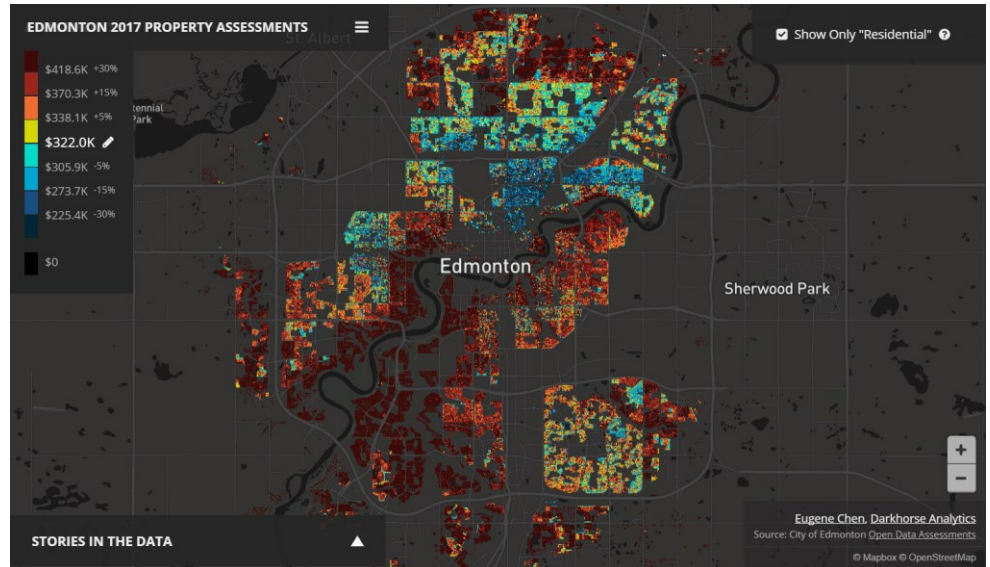
### Javascript Gridworld

I want to visualize AI algorithms to uncover hidden insights in my degree. Here, I ported a Python framework on Reinforcement Learning to Javascript. This was a personal project outside class.



### Testing Puzzles

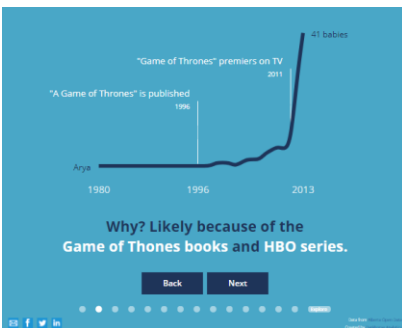
Put together a web version of a series of puzzles from "The Witness" game to help a research lab compare human performance with others who were taught using AI selected puzzles.



### Compare Property Assessments

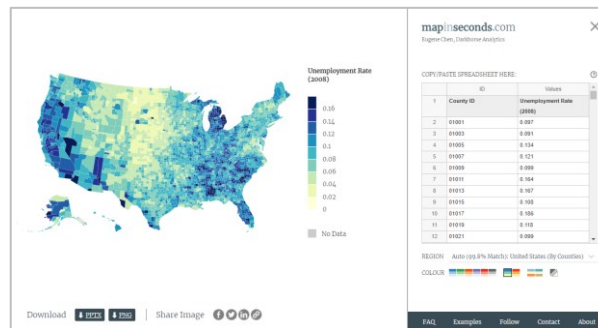
How do you visually compare hundreds of thousands of properties without losing any visual detail? [assess.dha.io](http://assess.dha.io) pushes current web based, dynamically data-driven rendering to its limits.

With the vision of showing every building, I tried SVG, Canvas, mapping frameworks (which removed edges, problematic for many simple rectangular buildings), even PixiJS (a Javascript gaming framework with WebGL).



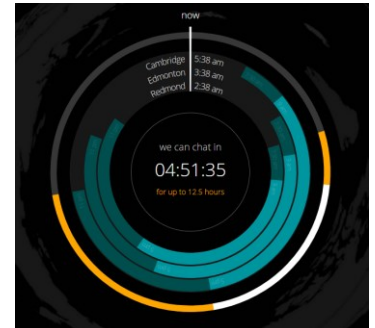
### Baby Names

My first attempt at a story-driven narrative using data, this mobile-friendly site comes complete with an exploratory tool at the end.



### MapInSeconds.com

Choropleth maps seemed like they should be completely intuitive and only take a few seconds to create and share. I'm proud of this foray into allowing people to better access and interpret their own data.



### WorldChatClock.com

Scheduling a meeting with someone from a different city? You shouldn't need to know their time zones.

## Appendix: Detailed Text Resume



# APPENDIX: DETAILED RESUME FOR EUGENE CHEN

eugene@ideaowl.com

- ACADEMICS:** University of Alberta MSc in Computing Science, 3.9 GPA Nov '23
- Publications:
    - [Entropy as a Measure of Puzzle Difficulty](#), Nominated Best Paper (Top 3 of 75+ submissions)  
Eugene Chen, Adam White, Nathan R. Sturtevant  
In the Proceedings of the AAAI Conference on AI and Interactive Digital Entertainment (AIIDE), 2023.
    - [Learning Curricula for Humans: An Empirical Study with Puzzles from The Witness](#)  
Levi Lelis, Joao Nova, Eugene Chen, Nathan Sturtevant, Carrie Demmans Epp, and Michael Bowling  
In the Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI), 2022.
    - [Image-to-Level: Generation and Repair](#)  
Eugene Chen, Christoph Sydora, Brad Burega, Anmol Mahajan, Matthew Gallivan, Matthew Guzdial  
In the Proceedings of the AAAI Conference on AI and Interactive Digital Entertainment (AIIDE), 2020.
  - Co-supervised by:
    - [Nathan Sturtevant](#) and [Adam White](#), both Canada CIFAR AI Chairs and [Amii Fellows](#)
- University of Alberta BSc in Electrical Engineering with the Co-op Option Dec '08
- Average Graduating GPA of 3.9 (last 2 years), Graduated with Distinction (3.7 overall)

## WORK EXPERIENCE:

- Darkhorse Analytics (Edmonton), CTO & Director Feb '12 – May '22
  - Create interactive data visualizations for clients like Proctor & Gamble to impress others and/or make executive decisions
  - Handle backend work on multithreaded, multi-instance server code with load balancing, auto scaling, CDN, etc
  - Create, help generate and handle viral content (multiple reddit frontpages, millions of impressions)
  - Lead technical strategy, hired and manage our development team
  - Organize company hackathons, one won top prizes for Apps for Alberta Competition 2015 (\$60K of \$70K prize pool)
  - Lead our hiring process, am an active mentor and advisor to colleagues
  - Present and help teach data visualizations in the community through workshops and presentations
  - Create projects (next page) and helped grow Darkhorse Analytics into a multi-million dollar, internationally consulting firm
- BoardSuite Corp (Toronto), Director of Technology Development Feb '11 – Jan '12
  - Assembled, trained, and managed development team. Migrated existing tech to open source platforms
  - Took over product management, forecasting and planning responsibilities
  - Implemented Agile processes, generated technology documentation and intellectual property
- nForm User Experience (Edmonton), Contracted Developer Oct '10 – Jan '11
  - Led development and fleshed out features and functionality on new, V1 product
  - Responsible for implementation of critical and sensitive components (such as authentication and admin tools)
  - Delivered fully functional product ahead of timelines and schedules
- Firenest Innovations Inc (Edmonton), CEO and Co-founder Apr '09 – Oct '10
  - Directed company, business strategy and execution
  - Development of full business plan and delivered company presentations, pitches → VenturePrize runners up (\$40k)
  - Responsible for front-end UI, UX design plus initial infrastructure development
  - Lead market research, customer feedback and acquisition efforts
- Degree-Required Co-op + Summer 3-4 Month Work Terms, ~2 Years Total Required from 2004,
  - \* **Received highest possible “Excellent” grade on each of my Co-op Work Terms from employers**
  - Microsoft Startup Labs, now MSR FUSE Labs (Cambridge, MA), Intern Program Manager Summer '08
    - Managed three new skunkworks projects for a future product line
    - Fleshed out concept, created deck, and presented proposed product to senior C-Level management
    - Other interns outside of direct team voluntarily follow and help me on a volunteer project
  - Microsoft Visual Studio Team System, now VS Team Services (Redmond, WA), Intern Program Manager Summer '07
    - Collaborated with various teams for research project on a future product
    - Designed and implemented a unique, trackable online repository for project
    - Produced award-winning project for a Microsoft-wide intern design competition
  - Microsoft Windows Live ID (Redmond, WA), Intern Program Manager Fall '06
    - Worked on improving partner/Live ID experience, collaborated with MS Research on internal project
    - Delivered on functional specs for CardSpace and rich-client Windows Live ID auth integration
    - Community Committee Member, Microsoft's 1<sup>st</sup> Asian Pacific Leadership Development Conference

# EUGENE CHEN

~ Appendix: Part 2 ~

- BlackBerry (was Research In Motion): RTS (Waterloo, ON), 3GPP Compliance Specialist Winter & Summer '06
  - Created Asset Management System to track compliance for multi-million dollar equipment
  - Produced a 32-page co-op report on the future of the wireless (telecommunications) industry
  - Worked with GSM, GPRS, EDGE, UMTS technologies, wireless industry operations
- Mediashaker Inc (Edmonton), SW Developer Summer '05
  - Developed on Mediashaker's CMS (Content Management System)
  - Liaised and met various clients' software development needs for multiple projects
- Worldwide Link Ltd: IT Group (Edmonton), Associate Summer '04
  - Developed company site, filtering programs, represented Worldwide Link Ltd in Kuala Lumpur
  - Planned, Rolled out solutions to Worldwide Link's growing I.T. infrastructural needs
- Ministry of Defense (Singapore), Training R & Management Centre, Mandatory Military Service Oct '00 – Feb '03
  - Developed a multi-user DBMS, did projects in India, Australia (details in *International Experience*)
  - Won several national (Singapore) awards for safety and efficiency projects
- DBS (Singapore), Credit Risk Policy & Monitoring Sep '99 – Aug '00
  - Developed and helped perform training for two separate corporate credit analysis applications
  - Oversaw programs' and project completion, maintenance and enterprise/server deployment

## TECHNICAL WORK SHARED IN THE MEDIA:

- 3D Map + Storytelling + Demographics tool, on [CityNews](#), CBC Edmonton News, [Radio Active](#), and [Taproot Edmonton](#) '22
- Citations of [TrackTheRecovery.org](#) on the U.S. economy from COVID in real time, by [Vox](#), [CNN](#) and [Bloomberg](#) '20
- Worked as tech architect, lead developer on [OpportunityAtlas.org](#) that was released to [New York Times](#) and [NPR](#) '18
- "Edmonton data fanatic animates a century of city growth in 6 seconds", [CBC](#) '18
- "Population growth visualized: Century of sprawl in Edmonton", [Global News](#) '18
- "Mapping expert makes detailed census data available to all Edmonton election candidates", [Edmonton Journal](#) '17
- "Don Iveson using new tool to reach voters", [CTV News](#) '17
- "Hundreds of thousands of polygons rendered on the fly", [Mapbox's Blog](#) '17
- "Is your property tax fair? New mapping project gives residents tools to better figure it out", [Edmonton Journal](#) '17
- "New map shows visualization of Edmonton home assessments", [MetroNews \(now The Star\)](#) '17
- "Edmontonian creates app to help people in need find Edmonton services", [MetroNews \(now The Star\)](#) '15

## PUBLICLY ACCESSIBLE, ONLINE PROJECTS:

- [Minerals Exploration and Development visualizations](#): Federal government (NRCan) site that is responsive, bilingual, accessible '24
- [MSc Thesis Materials](#): Academic publications, code-driven "slides" (see instructions), interactive plots + data '23
- [This is Edmonton](#): An interactive 3D map and dashboard visualizing detailed demographics using Tableau Public '22
- [500km of Google Streetview](#): A project to cover bike routes, link is to article, but footage up on streetview '22
- [TrackTheRecovery.org](#): Track the economic impact of COVID on people, businesses, communities across the US in real time '20
- [The MDP Playground](#): Generating, analyzing, and visualizing Markov Chains for debugging and more robust benchmarking '18
- [OpportunityAtlas.org](#): A tool to visualize income, incarceration, and more based on race, gender, and location of birth '18
- [AI vs Human Puzzle Choices](#): This earlier version is a bit more minimalist, built to allow us to collect human trial data '18
- [A Century of Growth in 6 Seconds](#): A 6 second animated GIF showing a century of city growth '18
- [Comparing Property Assessments](#): Storytelling and dynamically visualizing hundreds of thousands of buildings '17
- [MapInSeconds.com](#): Create maps in seconds, because it shouldn't be so hard to do so '16
- [A Million Baby Names](#): A storytelling approach in highlighting patterns of baby names in Alberta '15
- [LinkYEG.ca](#): A fork of Link-SF, this site connects homeless and low-income residents with critical resources nearby '15
- [#hackYEG Budget Visualization](#): A unique visualization showing the net revenue/costs for each department and branch '14
- [WorldChatClock.com](#): Schedule meetings across continents without needing to know anything about time zones '14
- [Hockey \(NHL\) Impact](#): Do metrics like payroll, penalty minutes, save % (and more) impact performance? '13

# EUGENE CHEN

~ Appendix: Part 3 ~

## PRESENTATIONS, TALKS, WORKSHOPS:

- “Generative AI Create-a-thon”, Ran Hackathon, AI + Data Learning Series for Tech Yukon, Whitehorse, Yukon	‘24
- “Data, AI, and Art: Viral + Impactful Visualizations”, AI + Data Learning Series for Tech Yukon, Whitehorse, Yukon	‘24
- “AI Goldilocks and the 3 Billion Puzzles”, AAAI Conference on AI and Interactive Digital Entertainment, Salt Lake City	‘23
- “AI & the Creative Impulse: An Opportunity & A Dilemma”, Edmonton Public Library (EPL), Capital City Art	‘23
- “Impactful Visualizations and How to Create Them”, Lead-in Programming for the Canadian Open Data Summit, Victoria, BC	‘23
- “How to Use Visualization to Get Your Work Noticed (and Understood)”, Alberta Machine Intelligence Institute Talent Program	‘23
- “What I Wish I Knew as a Grad Student”, Alberta Machine Intelligence Institute as Part of the U of A CompSci CMPUT 603	‘23
- “Exploring ChatGPT *Live*, with Useful, Wacky, and Scary Examples”, <a href="#">International Open Data Day at the EPL</a>	‘23
- “Crowdsourcing Ideas for a National Hackathon + Learn-a-thon”, Canadian Open Data Summit, Whitehorse, Yukon	‘22
- “From Idea to Perfect Pitching and Feedback” Data-Driven Entrepreneurship & Innovation Program, Whitehorse, Yukon	‘22
- “How to Get People Excited (About Your Data)” Canadian Open Data Summit	‘21
- “(Top) 30 Visualizations that Blew My Mind and Will Inspire You” Canadian Open Data Summit	‘21
- Various Hands-on Workshops on d3 and Tableau, StudentDevCon (Conference for Post-Secondary Students)	‘18, ‘19, ‘20, ‘21
- “Outcomes and Learnings from Five Years of Local Civic Tech Innovation and Engagement” Code For Canada Showcase	‘19
- “Achieving Sustainable, Transparent, and Efficient Outcomes with AI” Moderator, OGP Global Summit	‘19
- “Visualizing Python Data using Socket.io” EdmontonPY Meetup	‘19
- “Getting Started with Open Data” Workshop, International Open Data Day at the Edmonton Public Library	‘19
- “Visualizations Driving Decisions” Speaker, Canadian Open Data Summit, Niagara Falls	‘18
- “Build your own Beautiful, Detailed, and Interactive Map in 4 Hours” Workshop, <a href="#">OpenVisConf</a> , Paris	‘18
- “Mapping the Crisis in Affordable Housing” Speaker, <a href="#">Locate</a> (Mapbox conference), San Francisco	‘18
- “JS to D3” Presentation, Exchange.js (Edmonton’s Javascript Meetup) ( <a href="#">YouTube Link</a> )	‘18
- “mdp.ai: Dancing, Colourful MDPs for Research & Fun” Alberta Machine Intelligence Institute Tea Time Talk	‘18
- “Making Boring Charts Beautiful” Workshop, International Open Data Day at the Edmonton Public Library	‘18
- “The Hidden Ways Open Data Transforms Society through Innovation” Canadian Open Data Summit	‘17
- “A Taste of D3: Why, What’s Possible, and... How!” (3x), BetaCity YEG & Jobber (tech firm), Grant Mac University	‘16, ‘17
- “Make Your Open Data Dance with D3” Workshop (2x), Alberta Open Data Summit & University of Alberta	‘16

## LEADERSHIP/VOLUNTEERING EXPERIENCE, EXCLUDING TALKS/WORKSHOPS:

- Canada MSF ( <a href="#">Multi-Stakeholder Forum</a> ) Civil Society Member on Open Government	Mar ‘23 – Ongoing
- Chair, Canadian Open Data Society	Nov ‘22 – Ongoing
- President, Canadian Open Data Society	Nov ‘21 – Oct ‘22
- Founding Board Director, Canadian Open Data Society	Nov ‘19 – Ongoing
- Co-organizer, BetaCityYEG, Edmonton’s civic tech meetup	Oct ‘18 – Ongoing
- Executive Team, Andrew Knack City Council Re-election Campaign (he won, 66% of vote)	Sep ‘20 – Oct ‘21
- City of Edmonton Open Data Citizen Advisory Group Member	Sep ‘17 – Sep ‘20
- Data Director, Cabinet, the Re-elect Don Iveson for Mayor municipal campaign (he won, 72% of vote)	Jun ‘17 – Nov ‘17
- Committee Member focused on special projects, Edmonton’s NextGen	Jan ‘17 – Dec ‘18
- Co-chair, the Ignite Working Group, Edmonton’s NextGen	Oct ‘14 – Dec ‘16
- Co-Founder, “Volunteer with NextGen” events, providing group volunteering opportunities for new volunteers	Dec ‘15
- Volunteer, Edmonton’s NextGen (making Edmonton an engaging place to live in for 18-40 year olds)	Aug ‘11 – Oct ‘14
- Participant and Director, BetaCityYEG	Oct ‘15 – Sep ‘18
- Client/Mentor for University Capstone Design Project: Cocktails Data Visualization	Jan – May ‘14
- Client/Mentor for University Capstone Design Project: Emergency Dispatcher Game	Jan – May ‘13
- Client/Mentor for University Capstone Design Projects: Video Blimp and Blind Sonar Projects	Sep ‘11 – May ‘12
- Co-Founder, Meaet, a microfunding initiative for grassroots projects. This has run 10 times over the years.	Aug ‘11
- 1 <sup>st</sup> Runner Up (Team), Innovative Design at the Western Engineering Competition 2009	‘09
- VP Awareness, University of Alberta Golden Key International Honour Society Chapter	Sep ‘08 – Apr ‘09
- Representative (as student group executive), University of Alberta Student Union Leadership Summit	‘08
- Board Director, All divs (~2300 members and staff), Waterloo Cooperative Residence Incorporated (WCRI)	July ‘06 – Mar ‘09
- Director of Programs, Canadian Federation of Engineering Students Congress 2008	Oct ‘07 – Jan ‘08
- Inter-Divisional Council Chair, All divs (~700 members), WCRI	May ‘06 – Aug ‘06
- Committee Member, RIM Co-op Social Committee, Research In Motion (RIM) + Divisional Chair, WCRI	Jan ‘06 – Apr ‘06
- President, University of Alberta SPIE Student Chapter	May ‘05 – Apr ‘06
- Cofounder & Team Member, Project Stepping Stone (details in <i>Technological Experience</i> )	July ‘05 – July ‘06
- Cofounder & Vice President, University of Alberta SPIE Student Chapter + Associate Tech Editor, The Bridge	Sep ‘04 – Apr ‘05
- VP Academics, First Year Engineering Club	Oct ‘03 – Apr ‘04

# EUGENE CHEN

~ Appendix: Part 4 ~

## **INTERNATIONAL, NATIONAL EXPERIENCE:**

- Canada MSF ([Multi-Stakeholder Forum](#)) Civil Society Member on Open Government Mar '23 – Ongoing
- Chair, Canadian Open Data Society Nov '22 – Ongoing
- Speaker, Canadian Open Data Summit '17, '18, '21, '22
- Panel Moderator, Open Government Partnerships (OGP) Global Summit '19
- Student Delegate, 1<sup>st</sup> Canadian Engineering Summit 2009, Montreal May '09
- Nationals Competitor, Innovative Design at the Canadian Engineering Competition 2009 Oct '07 – Jan '08
- Director of Programs, Canadian Federation of Engineering Students Congress 2008 Oct '07 – Jan '08
- Presenter, Harvard Project for Asian and International Relations Academic Conference, Beijing Aug '07
- Selected delegate, Harvard Project for Asian and International Relations Business Conference, Hong Kong Aug '07
- Delegate, Cyberposium 12, Harvard Business School, Tech-focused MBA Conference, Harvard, Massachusetts Nov '06
- Selected delegate, Harvard College Asian Business Forum (HCABF), Mumbai, India Aug '06
- Delegate as chapter executive to Optics & Photonics 2005 (San Diego), Photonics West 2006 (San Jose) '05, '06
- Represented Worldwide Link Ltd (Canada) at K-Link International Convention, KL, Malaysia '04
- Presented at International Convention for Quality Control Circles (ICQCC) in Lucknow, India '02
- Flew to Australia as part of the Environmental Management Group '01
- Represented Canada in Hewlett Packard Global Business Challenge & Edmonton-Harbin Sister City Exchange '98, '99

## **ADDITIONAL TECHNOLOGY EXPERIENCE:**

- Produced projects like an SMS feedback app and [LinkYEG.ca](#) for BetaCityYEG, a civic tech meetup group (2014-ongoing)
- Developed [StatisticsEdmonton.com](#), “maptistics” + custom data for Apps4Edmonton competition, won > \$10K (2010)
- Created working Bluetooth and RFID projects that communicate tag information and computer control
- Won with the EE Team, the University of Alberta’s Engineering Week’s multidisciplinary Design Competition. (2007)
- Developed program to quickly solve “Ultimate Puzzle” with  $\sim 9 \times 10^{22}$  combinations with C++
- Worked with GSM, GPRS, EDGE, UMTS technologies, wireless industry operations at BlackBerry



**Left:** “A Mobile Future”, a 32-page work term report on the Mobile Future, later presented at the Harvard Project for Asian and International Relations 2007 Academic Conference, Beijing, China.

**Right:** The Punch Punch Revolution System (PPRS): My fun-game health idea that was, with my project team for our Capstone project, brought from concept to developed prototype. 1<sup>st</sup> Runner Up for the Western Engineering Competition, went to Nationals (Canada, 2009).



# EUGENE CHEN

~ Appendix: Part 5 ~

## AWARDS:

- Nominated for Best Paper, Top 3 (of 75+ submissions) with <a href="#">Entropy as a Measure of Puzzle Difficulty</a>	'23
- Winner, Unorthodox Prize at Hack-GPT Edmonton's LLM Hackathon (think ChatGPT)	'23
- Winner, Single-Button Category, BCI (Brain Computer Interface) Game Jam 2022	'22
- Shortlist, Information is Beautiful Awards on <a href="#">assess.dha.io</a>	'18
- Winner, Best Lightning Talk on "Data Looks Better Naked" of International Open Data Day at the Edmonton Public Library	'18
- Winner, Best Overall and Audience Pick of Exchange.js Showcase (Edmonton's Javascript meetup)	'17
- Longlist, Information is Beautiful Awards on <a href="#">MapInSeconds.com</a>	'16
- Winner, Edmonton's Open Data Hackathon	'16
- 3 <sup>rd</sup> Place, Battlehack Singapore Hackathon (of 40+ teams)	'15
- Shortlist, Information is Beautiful Awards on <a href="#">WorldChatClock.com</a> ,	'14
- Winner (Over \$10K), Apps4Edmonton 2010 (Apps Competition, "The Way We Plan" with <a href="#">StatsYEG</a> ),	'10
- Runners Up (Over \$40K), TEC VenturePrize 2010 (Alberta-wide Business Plan Competition)	'10
- Golden Geer Award (in recognition of years of outstanding service to engineering students)	'09
- 2 <sup>nd</sup> Place, Innovative Design, Western Engineering Competition (teams across Western Canada)	'08
- Microsoft Popfly prototyping design competition (notified and opened to all interns)	'07
- From Shell, the Top-Valued Engineering Undergraduate Leadership Award, 2006 - 2007 and 2006 - 2005	'05-'07
- University of Alberta Scholarship, 2008 - 2009, Jason Lang Scholarship, multiple times	'08-'09
- National (Canada) In-Course Millennium Excellence Award, 2004 - 2005	'04-'05

## EXPERIENCE/SKILLS/TOOLS:

### Active and Major Focus

Javascript	D3.js	Svelte + SvelteKit	Responsive CSS	Data Exploration
Cloud Services (AWS)	Load testing/balancing	CDN Integration	S3/CloudFront/R53 etc	Data Processing
Creative Brainstorming	Visualization	Teaching & Presenting	Mentoring	Strategy (Product/Firm)
Make Clients Happy	Collaborative Iterating	Convincing	Impressing	De-escalation
Project Management	HTML	Hiring	Storytelling	Design

### Active/Recent

Python	Express/Node JS	Containers (Docker)	Data Analysis	Webpack
Reinforcement Learning	Devops	Cloud Monitoring	MongoDB	I.T.
Paper Reading	Database Management	reddit for traffic	Google Analytics	Office Tools
UI/UX	Tableau			

### It was once a primary skill

More advanced Python	Vue.js	AngularJS	PHP	TDD
JQuery	Wordpress	my/MSSQL	C++, Matlab	CI/CD
Grunt	VBA	Ruby on Rails		

### Actively Learning

Prompt engineering	PixiJS			
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### Plan to Learn Soon

Three.js	WebGL	VR/AR		
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