

# Daniel Chen

+1 613-600-1330 | [danielchen.mc@gmail.com](mailto:danielchen.mc@gmail.com) | [linkedin.com/in/danielchen-mc](https://www.linkedin.com/in/danielchen-mc) | [github.com/Asianadian](https://github.com/Asianadian)

## TECHNICAL SKILLS

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**Languages & Frameworks:** Java, Python, C, C++, JavaScript, TypeScript, HTML, CSS, Next.js, SQL, JUnit

**Developer Tools:** Git, Docker, Maven, Gradle, Jira, Confluence, Splunk, Jenkins, SonarQube

## EXPERIENCE

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**AI Research Intern** – Azure: AI Studio, AI Search, Blob Storage, React.js May 2024 – Aug. 2024  
*National Research Council* *Ottawa, Canada*

- Indexed and stored departmental knowledge articles using **Azure Blob Storage** and **AI Search**
- Developed a **React.js** web application with **Azure AI Studio** to provide LLM responses with references to inquiries aided by RAG, reducing documentation searching times by up to **90%**
- Implemented dynamic controls in the web app to adjust temperature, top\_p and top\_k

**Software Development Engineer** – Java, JUnit, Postman, Splunk Jan. 2024 – May 2024  
*Trend Micro* *Ottawa, Canada*

- Improved workflow on Vision One through integration with existing notification service, taking advantage of **WebSocket** API to display notifications for time intensive jobs
- Wrote unit tests and documented extensive manual testing to ensure robustness and support future development
- Supported live deployment of features by monitoring logs in **Splunk** and addressing reported issues

**Software Development Engineer** – Java, C#, Postman, SQL May 2023 - Dec 2023  
*Canadian Bank Note Company* *Ottawa, Canada*

- Added elastic search to passport application intake system
- Created API for passport intake application to provide applicant information to facial recognition system and receive facial recognition results
- Participated in daily stand-up meetings and sprint planning sessions to ensuring alignment with project goals and deadlines

**Teacher's Assistant** – Python, Java Sep. 2022 - Apr. 2023  
*Carleton University* *Ottawa, Canada*

- Explained abstract programming concepts to students to improve understanding of course material
- Provided feedback on student submissions based on project specification

## PROJECTS

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**MyFitnessFriends** – Next.js, TypeScript, CSS, Supabase Jun. 2024 - Present  
*Fitness Tracking Web App*

- Created a web app using **Next.js** for users to gain nutritional insights from the **USDA FoodData** API, log exercises and track weight loss/gain progress

**Places Poll Bot** – Python, Google Places API, Discord API Jun. 2024  
*Place of Interest Polling Discord Bot*

- Created a Discord bot using **discord.py** for users to find locations through prompts using **Google Places** API
- Used **Discord** API to send polls with retrieved locations

**RouteEV** – React.js, Google Maps API, Google Places API Mar. 2024  
*Electric Vehicle Routing Web App - 2<sup>nd</sup> Place Ford EV Challenge @ uOttHack 6*

- Created a web app using **React.js** to show EV charging stations along planned routes using **Google Places** API
- Allowed users to reroute a trip through a selected charging station

## EDUCATION

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**Carleton University** Sep. 2020 - Present  
*4<sup>th</sup> year Bachelor's of Computer Science - 12.0/12.0 GPA* *Ottawa, Canada*