

Simon JinLin Cen

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EDUCATION

University of Toronto

Bachelor of Applied Science in Computer Engineering

Expected Graduation: April 2024
Toronto, Canada

WORK EXPERIENCE

RBC Capital Markets

Software Developer Intern

Jan. 2023 – April 2023

Toronto, Canada

Backend development for ATOM application as part of Central Funding Group, Quantitative & Technology Services (QTS)

- Built **Spring Boot** unit tests for risk and mark-to-market services with additional test coverage.
- Trained and optimized the **Natural Language Processing (NLP)** model for BBG Chat pipeline.
- Implemented and tested the **RESTful APIs** as an alternation to **Oracle SQL Developer** lookup for ATOM Security Service.
- Designed the automation test for financial metrics across **5** major environments with **Python, GraphQL, and Excel**.

Jobster.io

Software Engineer Intern

Sept. 2022 – Dec. 2022

Toronto, Canada

Full-stack development for Jobster's interview engine.

- Created a **PostgreSQL** database with **2650+** interview questions and their respective answers for **15** popular job positions.
- Standardized the application's environment and architect with **Docker**.
- Implemented the backend with **Flask** that enabled **NLP** to analyze users' answers.
- Designed the application's front-end in **React** for users to experience an immersive interview process online.

Coinsquare

Frontend Marketing Developer Intern

May 2022 – Aug. 2022

Toronto, Canada

Front-end development for Coinsquare's marketing sites.

- Developed and maintained websites for Coinsquare using **Gatsby's** framework with **React** and **Node.js**.
- Managed the content for the landing page and the new Coinsquare site using **WordPress**.
- Queried data for webpages with the use of **GraphQL**.
- Improved the **SEO** for website traffic with **react-helmet** and **Voluum**.
- Used **Netlify** for a git-based workflow and website deployment.

Microsoft

Azure Tester Volunteer

June 2021 – Aug. 2021

Guangzhou, China

Verified Microsoft Azure's services to engage with Microsoft's third-party partners as a technical evangelist.

- Evaluated the feasibility of using **Azure Synapse Analytics** to collect data for Smart City's development projects that influenced **447** companies and individuals.
- Verified the development process of **Azure Defender for IoT** for **285** companies and individuals.
- Analyzed app deployment process on **Microsoft Teams** for **579** third-party developers.

ENGINEERING PROJECTS

Easy Map

easyMap GIS that helps users explore the world.

Jan. 2021 – April 2021

- Designed the user interface of the map using **C++ gtk library**.
- Maintained the backend system using **Valgrind**.
- Implemented **A* algorithm** and **Simulated Annealing algorithm** that sped up the pathfinding functionality by 50%.

TECHNICAL SKILLS

- **Computer Language Skills:** Python, C/C++, Java, Typescript/Javascript, GraphQL, Solidity, HTML/CSS, XML, MATLAB, Verilog
- **Frameworks/Libraries:** Spring Boot, Express.js, Flask, React.js, Gatsby, WordPress, Redux, Junit, Mockito, Jest/Mocha, Cypress, WebRTC, Socket.io, Bootstrap, Material UI, Mongoose, Chart.js, pandas, Spacy, NLTK, Spacy
- **Database/SW Tools:** PostgreSQL, Oracle SQL Developer, SQLAlchemy, MongoDB, Docker, Node.js, Storybook, Hardhat, AWS, Azure, Power BI, Logic Apps, Postman, Heroku, Netlify, Google Analytics, Passport.js, Linux, Git, Vite, Voluum, Jira, Confluence, MS Excel, WinSCP, SuperPuTTY, Nexus Repository