Zihan Chen

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EDUCATION

Master of Computer Science, University of Ottawa (GPA 3.82/4.0) — 2021 - 2023

Honours BSc in Computer Science, University of Ottawa (GPA 3.88/4.0) — 2016 - 2021
Honors & Rewards: Dean's List, Merit Scholarships (2016 - 2021), Summa cum laude honors

WORK EXPERIENCE

Software Developer Intern — **May 2020 - Aug 2020**
Ford Motor Company — *Ottawa, ON*

- Wrote test cases in **C++** using Google testing framework (**Google Test / Google Mock**) that utilizes mocked testing objects to comprehensively cover multiple test scenarios which increased test coverage to 80%.
- Facilitated the transition to better service by updating legacy API calls in the business logic.

Software Developer Intern — **Sept 2019 - Dec 2019**
IBM Canada — *Ottawa, ON*

- Implemented an automated **Java** pipeline to facilitate the uploading and retrieval of smarts modules from Cognos web app, and **Python** scripts were incorporated to clean and extract features from datasets and smart modules.
- Improved problem-solving skill and the ability to spot defect roots via intensive defect fixings in an agile team-working environment.

Software Developer Intern — **Jan 2019 - Apr 2019**
Mitel Networks — *Ottawa, ON*

- Assisted in developing a **Java** chat micro-service which is responsible for handling conversation APIs.
- Designed and built a **JavaFX** chat application (similar to Slack) which utilizes REST APIs from chat micro service as an API demo to Java dev team.

PROJECT EXPERIENCE

Management System — 2023

- Developed a **Java Spring Boot** based backend system that handles CRUD operations to manage different entities, interacts with **PostgreSQL** database via JPA, and integrates Apache Shiro for user authentication.
- Utilized **React.js** to build an interactive user interface.

Twitter Viewer — 2022

- Engineered a **React-Express.js** tweet reader web app in **Javascript** that allows users to login via their Twitter credentials(3-legged OAuth), search for and follow other users, track their newest tweets, and like the tweets.
- Integrated **Redux** state management toolkit, and **PostgreSQL** to store user-related information (Followings, likes, etc) of registered users, and the Semantic UI for user interface design to provide a responsive experience.

Classification Fairness Enhancement — 2022

- Conducted experiments on text classifications tasks, and investigated fairness and classification performance metrics using **Python**.
- Compared effectiveness of SAFER and random masking approaches on fairness enhancements of several language models with Pandas and Scikit learn libraries.

TECHNICAL SKILLS

Languages:	Javascript, Java, Python, Kotlin, C++
Technologies/Others:	React.js, Node.js, Express.js, Spring Boot, PostgreSQL, Linux, Docker, Git, HTML, CSS
Test Tools:	Selenium, JUnit, Postman