Irving Ou
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Programming Skills

- **Languages**: Java, JavaScript, TypeScript, Go , Python, HTML/CSS, C++, Rust, SQL
- **Technologies**: Spring Boot, Spring, QT, Linux, React, Angular, Node, PostgreSQL, MySQL
- **DevOps**: Git,Maven,Junit,Docker

Education

- **Bachelor of Computer Science Honours** — Ottawa,ON
  Carleton University — *Aug 2017 – Present*
  Computer Science & Mathematics: Concentration in Statistics & Computing
  GPA: 3.7 (10.44/12)

Experience

- **Teaching Assistant, Data Structure** — Ottawa, ON
  Carleton University — *Sep 2022 - Present*

  - Exhibited strong communication skills by effectively explaining and demonstrating complex data structures concepts to students with no prior knowledge, resulting in a 100% increase in their scores on assignments.

  - Exceeded expectations by implementing multiple data structures using Java Collection Interfaces, adding additional functionality and achieving their optimal theoretical performance, even though it was not a requirement.

- **Full Stack Software Engineer** — Ottawa ON
  Snow Software — *Sep 2021 - Sep 2022*

  - Maintained and debugged large and complicated SaaS systems utilizing Java, Spring, Spring boot, Hibernate, J2EE, PostgreSQL and Angular

  - Participated in Agile project development cycle and made meaningful contributions to the conceptualization, development, and deployment of innovative solutions

  - Led the design and implementation of a set of CRUD APIs for the introduction of new features, utilizing asynchronous API calls to effectively manage high volumes of requests.

  - Enhanced the internal JSP plugin frameworks and architecture to enable conditional rendering and expression evaluations of front-end elements based on the Java bean method using reflection.

  - Demonstrated problem-solving skills by independently implementing new unanticipated use cases involving HTTP proxies, despite limited knowledge of the code base and no prior experience with HTTP proxies. Quickly delivered functionalities within three days, effectively solving the issue for the user.

Projects

- **Team Leader** — Ottawa, ON
  Medical Device Simulator — *Jan 2021 - Apr 2021*

  - Demonstrated strong project management skills by successfully guiding a team of four developers to complete a course project within the designated timeframe, culminating in an exceptional score of 100/100.

  - Implemented object-oriented design patterns to simplify project structure and improve code readability, resulting in reduced debugging time and a 50% reduction in required lines of code.

  - Implemented a mechanism using inheritance from QT framework classes, resulting in the reduction of hundreds of lines of if-else code for the same functionality.

EXTRACURRICULAR

- **Backend Developer**   Montreal, ON
  ConUHack   *Jan 2022*

  - ○ Demonstrated exceptional independence and problem-solving skills by developing the entire backend service single-handedly using Nest.js, TypeScript, TypeORM, and PostgreSQL.
  - ○ Showcased technical expertise and efficiency by deploying the backend services using Docker and Amazon AWS EC2, completing the development and deployment process in under 14 hours.