BRUCE JIN

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TECHNICAL SKILLS

- **Languages:** C/C++, Java, Python, Kotlin, HTML/CSS, JavaScript, Typescript, SQL
- **Technologies:** Linux, GitHub, Git, AngularJS, ReactJS, MSSQL, MySQL, Spring Boot, Flask, NodeJS

WORKING EXPERIENCE

Incoming Software Engineering Intern — May 2024 – Aug 2024
UKG — *Toronto, ON*

Software Engineering Intern — Sep 2023 – Dec 2023
Ford Motor Company — *Oakville, ON*

- Designed, and implemented a **Spring Boot** application of business intelligence and analytics information by using **React**, **Java** and **Kotlin**.
- Maintained and improved existing **REST API** interface and connected to **PostgreSQL** to manage the user information.
- Created **Data Transfer Object** to encapsulate data for method calls and maintained the **Controller-Service-Repository** pattern.
- Wrote comprehensive unit and integration testing strategies using **JUnit** and **Mockito** to ensure high code quality and full test coverage.
- Innovated and implemented the Dashboard Manager feature, allowing the team to add dashboards without the need for manual creation, optimizing **workflow efficiency.**

Software Engineering Intern — Jan 2023 – Apr 2023
Blue Streak Electronic — *Vaughan, ON*

- Designed, developed, and deployed a web application of collecting and organizing information by using **Java** and **Typescript** under the **Spring Boot** and **Angular** framework.
- Developed **RESTFUL API** connected to **MSSQL** to manager and maintain the product information.
- Implemented CRUD functionality by using **Spring Boot Controller, Service and JPA repository**.
- Applied the designed patterns such as **DTO**, **DAO** and **MVC** to improve maintainability.
- Developed file upload and download features independently using **SheetJS**, streamlined data operations by automating Excel file conversion, processing, and database uploads, cutting manual entry time and resulting in a **90% boost** in overall data analysis team's productivity.

Software Development Engineer in Test Intern — Sep 2021 – Dec 2021
JD.com — *Beijing, China*

- Carried out the unit testing and API tests by using **Python** and **Postman**.
- Analyzed **automated test** results and improve automated test coverage to maintain product quality.

PROJECTS

WatCarPool ↗ | Python, React, MySQL — Dec 2022

- Developed a full-stack web application in **JavaScript**, **Python** and **MySQL** for the database to provide a carpooling platform for drivers and passengers in the Ontario region.
- Created UI in **React** and implemented backend APIs in **Flask** to enable users to browse, join, and create trips.

Notes Reader ↗ | Android, Kotlin — Sep 2022

- Built an Android app that loads PDF documents for users to read and annotate in **Kotlin**.
- Integrated advanced zoom-in functionality, enabling users to intuitively zoom in/out with two fingers, pan for document repositioning, and seamlessly draw/highlight at any scale for an enhanced user experiencee.

EDUCATION

University of Waterloo — Sep 2020 – April 2025
Bachelor of Computer Science, Artificial Intelligence Specialization, Statistic Minor — *Waterloo, ON*

- Relevant Coursework: Data Structure and Management, Object-oriented Software Development, Algorithm, Database Implementation, Operating System, User Interface, Computer Network, Distributed System