Simon Ha

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EDUCATION

BSc. Honours Computer Science With Comprehensive Specialization   Toronto, ON | Exp Jan 2024
UNIVERSITY OF TORONTO
Coursework: Software Engineering; Data Structures and Algorithms; Operating Systems; Computer Security;

SKILLS

Languages: Java, SQL, C, Python, GoLang, Bash
Web Development: React, JavaScript, TypeScript, HTML/CSS, AngularJS
Technology: Git, Jira, Jenkins, Maven, MongoDB, OracleDb, Neo4j, PostgreSQL

WORK EXPERIENCE

BLACKBERRY LIMITED   Mississauga, ON | May 2021 – Aug 2022
SDE Intern | Enterprise Infrastructure

- Automated **environment specific** post-deployment service verification using **Selenium**, decreasing regression failures for new features and boosting code acceptance rate by **24%**
- Wrote **LDAP** queries and exposed a **REST API** allowing admins to easily toggle permission group membership for a specific user in front-end, decreasing overall time needed by **85%** on average
- Designed and implemented an update-form for **OIDC** and **3rd party IDP** related applications using **AngularJS** and **Spring** making the overall layout more organized and user-friendly.
- Lead effort to migrate external system into main application, adding **DDL** scripts for new database tables and crud API integrated in a **multi-tiered** backend
- Developed and pushed high-demand release defining features for internal product configuration application, managed through **JIRA** with bi-weekly sprint planning, backlog grooming and demos.

DAYSTAR LIMITED   Mississauga, ON | May 2020 - Aug 2020
SDE Intern | Policy Services

- Worked in a team of 3 developers to proactively develop a Commercial Property product front-to-back using **Vaadin** and **Java**
- Leveraged **Java API** and **MyBatis** framework in backend to get and save data, including the use of stored procedures in Sybase, increasing overall efficiency of commonly retrieved data by **50%**
- Applied ESB (Enterprise Service Bus) design patterns and WSO2 ESB Software to integrate various services of a policy admin system.

GENWORTH FINANCIAL CANADA   Oakville, ON | May 2019 – Aug 2019
SDE Intern | Web/Policy Services

- Applied **Adapter** Design Pattern to convert legacy-formatted data into new component through **IBM Messaging Queue** for JMS
- Designed a scheduler with **Spring-Boot** framework to upload reports to **MongoDB** and index in **Elasticsearch**, automating an internal process and increasing efficiency by **80%**.
- Created **UML** diagrams with architect and persisted domain model into **PostgreSQL**, mapping the objects with **Hibernate**

PROJECTS

U-IMPACTIFY ↗   JAVA, SPRING/SPRING-BOOT, HIBERNATE, REACT, MAVEN, SWAGGER API
A full-stack e-learning platform targeted at social work and marginalized groups, supporting organization-scoped or individual profiles.

HABITUAL ↗   MONGODB, EXPRESS, REACT, NODEJS
Simple habit tracker using famous MERN stack aimed to follow Atomic Habits philosophy with a set habit-forming equation.