

# Simon Ha

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## EDUCATION

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### University of Toronto

Honors Bachelor of Computer Science

Toronto, ON

Sept 2018 – Exp Jan 2024

**Relevant Coursework:** Advanced Data Structures and Algorithms; Operating Systems; Computer Security; Computer Networks, Designing Large Software Systems

## TECHNICAL SKILLS

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**Languages:** Java, SQL, C, Python, GoLang, Bash, JavaScript, HTML/CSS

**Frameworks & Protocols:** Spring/Spring-Boot, Hibernate, React, Express, NodeJS, AngularJS, OAuth 2.0 & OpenID Connect

**Databases & Tools:** Oracle, MongoDB, Neo4j, PostgreSQL, Elasticsearch, Git, Maven, Jira, Jenkins, Git, Eclipse

## EXPERIENCE

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### BlackBerry Limited — SDE Intern Enterprise Infrastructure

Mississauga ON, May 2021 – Aug 2022

- Automated environment specific post-deployment service verification using Selenium, decreasing regression failures for new features and boosting code acceptance rate by 24%.
- Engineered LDAP queries and exposed a REST API over HTTP/S 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 OpenID Connect and 3rd party IDP related applications using AngularJS and Spring making the overall layout more organized and user-friendly.
- Fully integrated with team by submitting/giving code reviews, meticulously interviewing interns for the following term and demonstrated initiative by taking on progressively larger workloads

### DayStar Limited — SDE Intern Web Policy Services

Mississauga ON, May 2020 – Aug 2020

- Delivered a Commercial Property product front-to-back using Vaadin and Java in a team of 3 developers over 4 months.
- 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) framework and WSO2 ESB Software to integrate various services of a policy admin system, skyrocketing re-usability by 300%.

### Genworth Financial (Sagen) — SDE Intern Web Services

Oakville ON, May - 2019 – Aug 2019

- Implemented an Adapter Design Pattern to convert legacy-formatted data into new component through IBM Messaging Queue for JMS, saving the company over \$500 in time and wages.
- 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%.
- Conceptualized UML diagrams with architect and persisted domain model into PostgreSQL, mapping the objects with Hibernate.

## PROJECTS

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### 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.
- Lead a team of 7 student developers to complete maximal features and stories in a 6 week period to obtain final grade of 90.6%
- Designed and architected UML, database data model, DDL and crud API integrated in a multi-tiered backend

### Habitual | MongoDB, Express, React, NodeJS

- Simple habit tracker using MERN stack aimed to follow Atomic Habits philosophy with a set habit-forming equation.
- Designed and built front-end to follow industry standard guidelines in React and exposed CRUD API with Express