Simon Ha

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EDUCATION

University of Toronto Toronto, ON
Honors Bachelor of Computer Science *Exp Jan 2024*

TECHNICAL SKILLS

Languages: Java, Go, Python, JavaScript/TypeScript, SQL, C, Rust, HTML/CSS
Frameworks & Protocols: Spring/Spring-Boot, Hibernate, React.js, Node.js, Angular, OAuth 2.0 & OpenID Connect
Databases & Tools: Oracle, MongoDB, PostgreSQL, MySQL, ElasticSearch, Cassandra, Git, Redis, CapnProto, gRPC, GraphQL
Misc: Docker/Compose, Kubernetes, Kafka, Celery, IBM-MQ, JMS, Linux/Unix, Gitlab/BitBucket, NGINX

EXPERIENCE

CloudFlare *May 2023 – Aug 2023*
SWE Intern - Workers Core Platform *Austin, TX*
- Overhauled edge-provisioning service for CF Workers into a fault-tolerant, distributed, horizontally scalable solution increasing maximum throughput by over 700% with automatic throttling and priority assignment.
- Rebuilt infrastructure in huge codebase to allow for percentage-based phased rollout of new feature for accounts.
- Drove Sentry redesign to reduce noise of alerts and introduce fingerprinting and grouping, doubling granularity but reducing noisy alerts by 60%.
- Implemented Prometheus Alerts based on Grafana metrics and integrated with gchat and PagerDuty to alert when systems are down, increasing observability and metrics by 100%.

BlackBerry Limited *May 2021 – Aug 2022*
SWE Intern - Enterprise Infrastructure *Mississauga, ON*
- 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.
- Built an update-form for OpenID Connect and 3rd party IDP related applications using AngularJS and Spring increasing user-friendliness and positive client interaction responses by 30%.

DayStar Limited *May 2020 – Aug 2020*
SWE Intern - Web Policy Services *Mississauga, ON*
- Delivered a Commercial Property product front-to-back using Vaadin and Java 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%.

Genworth Financial (Sagen) *May 2019 – Aug 2019*
SWE Intern Web Services *Oakville, ON*
- Implemented an Adapter Design Pattern to convert legacy-formatted data into new component through IBM Messaging Queue for JMS, saving the company over $1000 in time and wages.
- Instituted a scheduler with Spring-Boot to upload reports to MongoDB and index content in Elasticsearch, automating DevOps task and increasing efficiency by 80%.

PROJECTS

Artify | *Flask, Angular, MongoDB,*
- Art Generation Application with p5.js and deployed version of Stable Diffusion

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 MERN stack aimed to follow Atomic Habits philosophy with a set habit-forming equation.