

SAI RIJAL

SOFTWARE DEVELOPER | CALGARY, CANADA

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OVERVIEW

Languages: Javascript, Python, Ruby, Go, Java, SQL
Frameworks: React/Redux, Vue, Rails, Node, Django, Gin, Android
Technologies: Docker, Kubernetes, Nginx, MySQL, Postgres, Jira

EDUCATION

University of Waterloo *Waterloo, ON, Canada*
Bachelor of Applied Science, Honours Computer Engineering *Sep '14 – Apr '19*

- Graduated on the **dean's honour list** with distinction and an **86% average (3.9 GPA)**.
- Relevant courses:** Distributed Computing, Cryptography and System Security, Database Systems.

EXPERIENCE

Cisco Meraki *San Francisco, CA, USA*
Software Engineering Intern *4th Sept '18 – 21st Dec '18*

- Developed customer facing full-stack solutions involving schema design, DB migrations, backend, API development, and front-end engineering for the Mobile Device Management team.
- Spearheaded development of a user requested feature using Postgres, Rails, and React, by giving users re-usability and sandboxing ability in managing their endpoint devices.
- Added documentation and Grafana monitoring to track deployment of features.
- Identified, documented, and patched bugs in existing Rails and Flux codebase.

NVIDIA *Santa Clara, CA, USA*
Web/Database Applications Architect Intern *8th Jan '18 – 12th Apr '18*

- Leveraged Go with Gin along with MySQL to create a REST API enabled app to automate configuration changes on 10000+ servers, allowing agile changes to and better utilization of NVIDIA's server farms.
- Engineered a web app wrapping the API, allowing other teams to directly manage computing resources.

DRW Holdings *Montreal, QC, Canada*
Software Developer Intern *8th May '17 – 25th Aug '17*

- Engineered a web application to automate data collection and config changes on switches, FPGAs, containers, and VMs for trade execution, reducing engineering time per change from 8 hours to 15 minutes.
- Explored implementation of High Availability for the application with the use of Docker and Docker Swarm.

Shaw Cablesystems *Calgary, AB, Canada*
Computer Science Intern *6th Sept '16 – 23rd Dec '16*

- Migrated applications to use Docker, improving logging, availability, and utilization of servers.
- Added scheduling to Video-On-Demand management application removing the need for Shaw operators to come into work at midnight to make VOD menu changes.

TD Labs *Kitchener, ON, Canada*
Solutions Developer *4th Jan '16 – 22nd Apr '16*

- Explored emerging technologies like HoloLens, service workers, and Android APIs, and used the research to develop novel Android, web, and virtual reality applications for banking uses such as data visualization.

PROJECTS

Personal Site *sairijal.com*
Personal site with mobile support, offline capability with a service worker, secured with Cloudflare SSL.

Get Some Fish *getsomefish.sairijal.com*
Application that lets the user see what pet fish are compatible with their tank environment and each other.