

# SAI RIJAL

SOFTWARE DEVELOPER

me@sairijal.com  
github.com/sayujya  
linkedin.com/in/sairijal

## OVERVIEW

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

## EDUCATION

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**University of Waterloo** *Waterloo, ON, Canada*  
**Honours Bachelor of Applied Science, Computer Engineering** *Sept '14 – Apr '19*  
· Graduated on the **dean's honour list** with distinction and an **86% average (3.9 GPA)**.

## EXPERIENCE

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**Cisco Meraki** *San Francisco, CA, USA*  
**Software Engineering Intern** *Sept '18 – Dec '18*  
· Developed customer facing full-stack solutions involving schema design, DB migrations, backend, API development, and front-end programming 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** *Jan '18 – Apr '18*  
· Utilized GitLab, Jenkins, Artifactory, Docker, Kubernetes, Rancher, and Kong to build a continuous integration, testing, and delivery pipeline to streamline deployment of applications.  
· 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.  
· Developed a web app wrapping the API, allowing other teams to directly manage computing resources.

**Vigilant Global** *Montreal, QC, Canada*  
**Software Developer Intern** *May '17 – Aug '17*  
· Developed 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** *Sept '16 – 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** *Jan '16 – 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

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**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.