

# SAI RIJAL

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## OVERVIEW

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

## EXPERIENCE

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

- Developed full-stack solutions consisting of schema design, DB migrations, APIs, and front-end features for the Mobile Device Management team
- Implemented a widely requested feature using Postgres, Rails, and React, giving users reusability and sandboxing ability in managing their endpoint devices
- Added documentation and Grafana monitoring to track deployment of mentioned feature

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

- Leveraged Go with Gin framework along with MySQL to create an API to automate configuration changes on around 10000 servers, allowing agile changes and better utilization of resources
- Developed a web application leveraging above API to allow delegation of these tasks to other employees
- Utilized GitLab, Jenkins, Artifactory, Docker, Kubernetes, Rancher, and Kong to build a continuous integration, testing, and continuous delivery pipeline to streamline deployment of other applications

**Vigilant Global, A DRW Company** *Montreal, QC, Canada*  
**Software Developer Intern** *May – Aug '17*

- Developed an application to parse data from switches, FPGAs, and Hypervisors and keep track of their availability, location, status, and connections in a PostgreSQL database
- Saved engineering hours by using RabbitMQ and Celery to queue tasks to automatically configure switches/FPGAs and create VMs/Containers for trade execution
- Implemented High Availability for multiple applications with the use of Docker and Docker Swarm, reducing the possibility of critical applications going offline during trading events

**Shaw Communications** *Calgary, AB, Canada*  
**Computer Science Intern** *Sep – Dec '16*

- Migrated applications to use Docker, improving logging and reducing use of system resources
- Added scheduling feature to Video-On-Demand management application preventing the need for Shaw operators to come into work at midnight to make VOD menu changes

**TD Lab** *Kitchener, ON, Canada*  
**Solutions Developer Intern** *Jan – Apr '16*

- Explored emerging technologies such as HoloLens, Vuforia, and NFC and used the knowledge to develop Android, web, and virtual reality applications with banking uses

## PROJECTS

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**Get Some Fish** *getsomefish.sairijal.com*  
- App that allows users to find the right pet fishes, built with Flask and hosted on Google App Engine

**Android Projects**  
- **Material Compass** | Compass app that filters noise from sensors using Gaussian low pass filter  
- **HexClock** | Android implementation of HexClock by jacopocolo  
- **Material Alarm** | Proof of concept of Material design-based alarm app. Demo @ [goo.gl/7Uo9tg](https://goo.gl/7Uo9tg)

## EDUCATION

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**University of Waterloo** *Waterloo, ON, Canada*  
Honours Bachelor of Applied Science, Computer Engineering *Sep '14 – Apr '19*  
Graduating with distinction and on the Dean's Honours List