# SAI RIJAL

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## **OVERVIEW**

Languages: JavaScript, Python, Go, Java, TypeScript, C, C++, C#, SQL, HTML Frameworks: Android, NodeJS, Django, Gin/Martini, Vue, Angular, React, Sails, .NET Docker, Kubernetes, Nginx, MySQL, Postgres, Redis, RabbitMQ, Celery

# EXPERIENCE

# NVIDIA Web/Database Applications Architect

Santa Clara, CA, USA

Jan - Apr '18

- Leveraged Go with Gin framework along with MySQL to create an API to automate configuration changes of 10000 server, allowing for rapidly changes to configuration 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 Software Developer Intern

Montreal, QC, Canada

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.
- Used RabbitMQ and Celery to queue tasks to automatically configure switches/FPGAs and create VMs/Containers for trade execution purposes, saving man hours and capital.
- Moved multiple applications to Docker, improving development and deployment time.
- Explored the possibility of implementing High Availability for applications through Docker Swarm, reducing the possibility of critical applications going offline during trading events

## Shaw Communications Computer Science Intern

Calgary, AB, Canada

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.
- Updated legacy back-end JS code to use ES6 tools such as promises, arrows, and destructuring.

## TD Lab Solutions Developer

Kitchener, ON, Canada

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

## Get Some Fish

getsome fish.sairijal.com

- Web app developed using Flask and Materialize hosted on Google App Engine.
- Allows users to find the right kind of pet fish depending on water qualities like pH and hardness.

# **Android Projects**

qoo.ql/UpXLuS

- Material Compass | Compass app that employs Material design and filters noise from sensors using Gaussian low pass filters.
- **HexClock** | Android implementation of HexClock by jacopocolo
- Material Alarm | Proof of concept of Material design based alarm app. Demo @ goo.ql/7Uo9tq.

#### Personal Site and Blog [retired]

legacy.sairijal.com

- Personal site and blog written in Python and hosted on Google App Engine.

# **EDUCATION**

## University of Waterloo

Honours Bachelor of Applied Science, Computer Engineering

Sep '14 - Apr '19