

SAI RIJAL

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PROFILE

Software developer with an interest in financial technology. Sports, politics, & economics enthusiast.

Languages: JavaScript, Python, Java, Ruby, C, C++, C#, SQL, HTML, CSS
Frameworks: Android, iOS, NodeJS, Ember, Angular, React, Vue, Sails, .NET, Flask, Django
Technologies: Docker, Kubernetes, Nginx, AWS, GAE, ESXi, Redis, RabbitMQ, Celery

EXPERIENCE

Vigilant Global, a DRW Company

Montréal, QC

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.
- 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

Calgary, AB

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

TD Lab

Kitchener, ON

Solutions Developer

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

getsomefish.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

goo.gl/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.gl/7Uo9tg.

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

Sep '14 – Apr '19

Honours Bachelor of Applied Science, Computer Engineering