SAI RIJAL

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PROFILE

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