SAI RIJAL

4A COMPUTER ENGINEERING

sairijal.com | github.com/sayujya | in/sairijal | me@sairijal.com | (226) 606-4328

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 on around 10000 servers, allowing agile configuration 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 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.
- 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 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

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

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.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