

Akshat Sharma

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Education

Master of Software Engineering,

San Jose State University

Aug 2018 – Dec 2020

Bachelor of Software Engineering,

San Jose State University

Aug 2015 – May 2018

Skills

Languages

JavaScript, Java, Python, Lua, C, Bash

Frontend Web

jQuery, React, React UI Libraries, CSS(sass/scss), HTML

Backend Web

Node.js, Express.js, Django, Ruby on Rails

Databases

Firebase, MySQL

Cloud Services

Google Cloud Platform, Amazon Web Services, Digital Ocean, Linode

Concepts

Object Oriented Programming, Event Driven Programming, Parallel Processing, C Socket Programming, Software Defined Networking (Ryu, Floodlight)

Miscellaneous

Linux, Git

Interests

- Writing Codepens with JS, CSS, and UI/UX focused elements. [🔗](#)
- Constantly ricing my Linux machine towards optimum productivity.

Work Experience

Full Stack Web Developer & Cloud Engineer, Red Line Safety

Oct 2019 – May 2020

- Implemented a Node.js service that gathers live data from IoT devices using AWS IoT and GCP Pub/Sub, and pushes it to Firebase database.
- Hosted the IoT Node.js service, and a dashboard web app on GCP Compute Engine.
- Implemented a map based dashboard using Next.js and React Ant Design UI library to display live values from Firebase. Used socket.io to implement client-server notification system.

Full Stack Web Developer, SJSU Research Foundation

Nov 2018 – May 2019

- Developed a web dashboard with Node.js and Express.js for backend, Firebase as database, jQuery and SASS for frontend implementation. Main achievements:
 - Visualized live locations of different entities on a map based on values in Firebase using constant AJAX calls to Node.js REST API, and Google MAPS API.
 - Implemented a Node.js service that generates random coordinates, and other values for certain entities and saves them in Firebase.

Projects

Flyingfox, CSS, Firefox [🔗](#)

Apr 2020 – present

A firefox browser redesign. I started and am currently maintaining this open source project.

Boreas, Android, Java [🔗](#)

Aug 2019 – Dec 2020

A decentralized encrypted Android chatting application that attempts to facilitate communication without internet using Google Connection API. My responsibilities included UI, RSA encryption, and implementing event-signal based architecture to update views upon database changes.

Custom Linux Kernel, C, Virtualization

Oct 2019 – Nov 2019

Implemented custom VM-exit to perform various tasks in the hypervisor(KVM) based on values in registers.

UniRide, Android, Java [🔗](#)

Oct 2017 – May 2018

Developed a ride sharing android application for students as undergrad senior project. Worked on objected oriented project architecture, and UI implementation using various libraries.