

# Akshat Sharma

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## Education

**Master of Software Engineering,**  
*San Jose State University*  
Aug 2018 – Dec 2020  
Specializing in Networking Software

**Bachelor of Software Engineering,**  
*San Jose State University*  
Aug 2015 – May 2018

## Skills

### Languages

*JavaScript, Python, Java, Lua, C, Bash*

### Backend Web

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

### Frontend Web

*jQuery, React, CSS(sass/scss), HTML*

### Databases

*Firebase, MySQL*

### Cloud Services

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

### Computer Networks

*C Socket Programming, Software Defined Networking (Ryu, Floodlight)*

### Miscellaneous

*Linux, Git*

## Interests

- Writing Codepens with 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 & Native Android 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.
- Enhanced existing Android app UI. Worked with Java and XML.

## Projects

**Flyingfox, CSS, Firefox** [🔗](#)

Apr 2020 – present

Started, and currently maintaining a small open source project that improves Firefox UI.

**Boreas, Android, Java**

Aug 2019 – present

A pseudo-decentralized Android chatting application that attempts to facilitate communication without internet using Google Connection API as master's project. Currently working on UI, and implementing event-signal based architecture to update views upon database changes.

**Custom Linux Kernel, 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.