

# Raj Patel

Software Developer

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## TECHNICAL SKILLS

### Languages

C/C++, Java, Bash, JavaScript, Python, GoLang

### Technologies

Linux, AWS, EC2, Telegraf, InfluxDB, Grafana, Git, Docker, Node.js, Prometheus, JIRA

## WORK EXPERIENCE

### Software Developer

SAP Labs

09/2018 – Present

San Ramon, CA

- Worked with the infrastructure monitoring team to optimize the collection, storage and visualization of time-series metrics data using the open source TICK stack
- Added retention policies to metrics data to improve the performance of the monitoring stack
- Developed and optimized scripts to automate the deployment of the monitoring stack on various EC2 instances
- Performed system administration duties to diagnose and resolve issues with productive systems
- Created Grafana dashboards to monitor Docker containers

### Software Engineer Intern

Organizer Inc.

07/2017 – 12/2017

Sacramento, CA

- Worked in an Agile-based team to develop enterprise software applications
- Developed front and back ends of iOS, Web and Android applications
- Worked with the UX/UI designer to overhaul the company website using JavaScript, CSS, and jQuery
- Performed extensive QA tasks and documentation on company software
- Utilized Maven, Jenkins, and Google Cloud Platform to build, deploy, and test applications

## EDUCATION

### Bachelor of Science, Computer Science

University of California, Davis

06/2018

Davis, CA - Major GPA: 3.29

#### Course Work

- Operating Systems
- Algorithm Analysis and Design
- Data Structures
- Computer Architecture
- Computer Vision
- Computer Graphics

## ACADEMIC PROJECTS

### Linux Shell | Operating Systems (04/2018)

- Implemented a custom Linux shell in C that reads user input and executes commands via terminal
- Added support for piped commands, background commands, and input/output redirection

### User Level Thread Library | Operating Systems (05/2018)

- Implemented a user level thread scheduler capable of scheduling multiple threads in a round robin order
- Created a semaphore API for the scheduler to use for thread synchronization
- Added thread protected storage capabilities (TPS) and an API to manage access

### React Photo Gallery | Web Development (04/2018)

- Created a photo library website that utilized the Google Vision API to auto tag images with detected landmarks and objects
- Wrote the front end relying on React, back-end in Node.js, and used SQLite as the database
- Developed an API to add and remove images to the gallery and tag them using the Google Vision API