

# JOSH LOPEZ

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## PROFESSIONAL EXPERIENCE

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### **Proofpoint, Inc.**

*Software Engineer*

**Sunnyvale, CA**

06/2019 – Current

- Develop and maintain analytics application that handles massive amounts of customer data

### **ID Tech**

*Software Engineer*

**Cypress, CA**

09/2018 – 01/2019

- Contracted to build mobile app for customers to remotely manage/monitor payment devices
- Node.js app features barcode scanner (using Quagga.js), remote device updates, real-time data analytics, device location info using Google Maps API, and much more

### **Proofpoint, Inc.**

*Software Engineering Intern*

**Sunnyvale, CA**

06/2018 – 09/2018

- Investigated issues breaking downstream services that consumed from Kafka and S3 buckets
- Designed extendable JSON processing library; created new pipeline for validating & ingesting customer data, thus improving performance & visibility of schema mismatch errors
- Worked with Google Guice, Maven, and Jackson to create robust pipeline for processing and monitoring large amounts of event data

*DevOps Engineering Intern*

06/2017 – 09/2017

- Developed web app for searching and accessing thousands of Confluence resources
- Used Flask and Atlassian REST APIs for backend; HTML, CSS, & Javascript for frontend
- Additional development on fixing/improving infrastructure tools, mainly using Python & PHP

## SKILLS

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- *Programming Languages:* Java, Python JavaScript, SQL, C++, HTML, CSS
- *Programming Technologies:* Guice, Grizzly, Jersey, Jetty, Node.js, React
- *Databases:* MySQL, Redis, S3, MariaDB
- *Deployment:* Kubernetes, Docker, NGINX, Puppet
- *Other Skills:* Public speaking, SCRUM, Agile Methodologies

## EDUCATION

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University of California, Irvine  
Computer Science B.S.

GPA: 3.854  
Graduated 2019

## SELECTED PROJECTS

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### **GradeTip** ([site](#) | [repository](#))

Document-sharing platform and forum for students built as small business idea. Allows users to collaborate, ask for help with schoolwork, and share study materials. Website built in Python using Flask, redis, and wsgi; deployed via NGINX.

### **MovieNight** ([repository](#))

Movie browsing platform that allows for searching, browsing, and buying movies (integrated with PayPal). Composed of several Java microservices, each of which is built using Jersey, Jackson, MySQL, Gradle; deployed via NGINX.

### **FireEscape** ([site](#) | [repository](#))

Built machine learning model as part of Microsoft's Malmo Collaborative AI Challenge in which an agent uses deep q-learning and q-networks to solve complex mazes in Minecraft. Worked on a small team of engineers using the open-source Malmo project.