

# JAY MISHRA

✉ jaythemishra@gmail.com ☎ (408)-601-9596 in jaythemishra 🌐 jaythemishra

## EMPLOYMENT

### Software Engineer

Confluent

Aug. 2021 to Current

- Migrated Cost Engineering team's cloud state exporters to internal Kubernetes cluster using Helm and Python
- Deployed internal cloud resource tagger service "graffiti-accountant" to production k8s using Golang and Terraform
- Currently building a cost attribution service to accurately attribute cloud provider usage costs to internal teams

### Software Engineering Intern

Snackpass

Sept. 2020 to Dec. 2020

- Built the first version of Snackpass's delivery integration with the Postmates API
- Wrote RFCs and design documents and built consensus from the entire time to drive the project to completion
- Added the integration to the checkout flow in the mobile app UI and backend monolithic web server using Typescript

### Software Engineering Intern

Confluent

June 2020 to Sept. 2020

- Working on the Cloud Infrastructure team to produce metrics related to Confluent's spending on public cloud providers
- Integrated internal Flask API with Okta Single Sign-On to allow cross functional teams to access said metrics
- Built data visualizations and UIs in React to present various cloud costs to employees in an easily consumable fashion
- Built centralized logging pipeline for all team applications using Kafka, Logstash, Elasticsearch, and Kibana

### Security Engineer Intern

Facebook

June 2019 to Sept. 2019

- Built internal tool to least-privilege and simplify IAM permission policies for Facebook's internal AWS accounts
- Used the AWS Python SDK to fetch current IAM permissions granted to users, roles, and groups in given AWS accounts
- Queried Hive tables of AWS Cloudtrail Event logs using Presto to determine which IAM permissions are actually being used

### Software Engineering Intern

Zededa

June 2018 to Sept. 2018

- Wrote client-server Go application to verify functionality of applications deployed on devices using Zededa's IoT platform
- Built the Actions and Selectors for the application UI in React so that customers could write tests for deployed applications
- Developed an EOS block producer configuration using Docker Compose and EOSIO to be deployed on Zededa's platform

## EDUCATION

### UCLA

June 2021

B.S. Computer Science | GPA: 3.65 | Dean's Honor List

Coursework: Data Structures, Algorithms, Machine Learning, Deep Learning, Computer Vision, Databases, Computer Networks

Activities and Societies: Upsilon Pi Epsilon Computer Science Honor Society, Sigma Eta Pi Entrepreneurship Fraternity

## PROJECTS

### OnCampus

Jan. 2019 to Dec. 2019

- OnCampus helps thousands of UCLA students find clubs and student organizations matching their interests
- Built the website using Django for the backend, PostgreSQL for the club and user databases, and Caddy for the web server
- Deployed the entire application on AWS EC2 using Docker Compose to containerize each service

### Glia

Jan. 2019 to Mar. 2019

- Developed a gratitude journal that has users write down one thing they're grateful for and track their mood every day
- Used React and Redux to create the web app's UI and authenticate users so they can view their previous entries
- Built the backend using Node and Express to grant authentication tokens and store journal entries and mood emojis

## SKILLS

**Languages:** Python, SQL, Golang, C++, Javascript, Bash, HTML/CSS

**Frameworks/Technologies:** Docker, Flask, Kubernetes, Terraform, React, Django, PostgreSQL, PySpark, Scikit-Learn, Keras