# Jay Mishra

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## EDUCATION

**University of California, Los Angeles**                                                                 Los Angeles, CA
*Bachelor of Science, Computer Science | 3.65 GPA | Dean's Honor List*                    *Aug. 2017 – June 2021*
Coursework: Data Structures, Algorithms, Machine Learning, Deep Learning, Computer Vision, Databases, Networking

## EXPERIENCE

**Senior Software Engineer**                                                                             Aug. 2021 – Feb. 2025
*Confluent*                                                                                                        *Mountain View, CA*
- Built cloud cost attribution service using dbt, BigQuery, and Python to accurately attribute costs to internal orgs
- Designed and built bespoke full stack web app for cost attribution visualization using FastAPI, React, and Next.js
- Augmented operational reporting pipelines using Airflow, Cloud Composer, Python, and Jira and Pagerduty APIs
- Developed and deployed internal cloud resource tagger service to EKS cluster using Golang, Terraform, and Docker
- Generated dynamic secrets and injected them into k8s workloads using Helm, Terraform, and Vault secrets engine

**Software Engineering Intern**                                                                         Sept. 2020 – Dec. 2020
*Snackpass*                                                                                                        *Sunnyvale, CA*
- Built the first version of Snackpass's restaurant to customer delivery integration with the Postmates delivery API
- Wrote RFCs and design documents to clarify specifications from stakeholders and drive the project to completion
- Added the integration to the checkout flow in the mobile app UI and backend server monolith using TypeScript

**Software Engineering Intern**                                                                         June 2020 – Sept. 2020
*Confluent*                                                                                                        *Mountain View, CA*
- Worked on the Cost Engineering 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 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**                                                                             June 2019 – Sept. 2019
*Meta*                                                                                                             *Menlo Park, CA*
- 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 AWS accounts
- Queried Hive tables of AWS Cloudtrail Event logs using Presto to determine which IAM permissions were in use

**Software Engineer Intern**                                                                             June 2018 – Sept. 2018
*Zededa*                                                                                                           *Santa Clara, CA*
- Wrote client-server Go service to verify functionality of services deployed on devices using Zededa's IoT platform
- Built a React frontend for the health check service so that customers could write tests for deployed applications
- Developed an EOS block producer configuration using Docker and EOSIO to be deployed on Zededa's platform

## PROJECTS

**OnCampus** | *Python, Django, PostgreSQL, Docker, Caddy, AWS EC2*                        Jan. 2019 – Dec. 2019
- OnCampus helps thousands of UCLA students find clubs and student organizations matching their interests
- Built the backend using Django, club and user databases using PostgreSQL, and production server using Caddy
- Deployed the entire full stack web application on AWS EC2 using Docker Compose to containerize each service

**Glia** | *JavaScript, React, Redux, Node.js, Express*                                               Jan. 2019 – Mar. 2019
- Created a gratitude journal that lets users express gratitude in short form and track their mood visually 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 and mood emoji entries

## TECHNICAL SKILLS

**Languages**: Python, SQL, Golang, C++, SQL, TypeScript, Bash, HTML/CSS
**Frameworks**: React, Next.js, FastAPI, Flask, Django, Node.js, Material-UI
**Developer Tools**: Git, Docker, Kubernetes, Terraform, dbt, BigQuery, Airflow, AWS, Google Cloud Platform, Azure
**Libraries**: pandas, NumPy, PyTorch, Scikit-Learn, PySpark, Keras