JAY MISHRA

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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

EMPLOYMENT

Incoming Software Engineering Intern
Snackpass — Sept. 2020 to Dec. 2020

- Building new features like group ordering and algorithmic takeout recommendations for thousands of customers

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
- Integrating internal Flask API with Okta Single Sign-On to allow cross functional teams to access said metrics
- Building data visualizations and UIs in React to present various cloud costs to employees in an easily consumable fashion

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

PROJECTS

ResNet Image Classifier
Nov. 2019

- Built a Deep Convolutional Neural Network with residual blocks to classify thousands of images from the CIFAR 10 dataset
- Implemented Identity and Convolutional residual blocks using 2D convolutions, batch normalizations, and activations
- Processed images using multiple Identity and Convolutional blocks of increasing sizes and fed results into a Keras ResNet
- Trained ResNet for 50 epochs on Google Colab GPUs and correctly classified 71% of 10,000-image validation set

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/INTERESTS

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

Frameworks/Technologies: Docker, Django, Flask, PostgreSQL, Scikit-Learn, PySpark, Presto, React, Keras

Interests: Skateboarding, Biking, Basketball, Weightlifiting, Slacklining, Reading, Traveling, Poker, Anime, Meditation