JAY MISHRA

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EDUCATION

UCLA   June 2021
B.S. Computer Science (GPA: 3.61)
• Honors: Dean's Honor List, Upsilon Pi Epsilon Computer Science Honor Society
• Relevant Coursework: Data Structures, Algorithms, Databases, Distributed Systems, Computer Graphics

EMPLOYMENT

Security Engineer Intern
Facebook   June 2019 to Sept. 2019
• Building internal tool to least-privilege and simplify IAM permission policies for AWS accounts being used by Facebook employees
• Using the AWS Python SDK Boto 3 to fetch current IAM permissions granted to users, roles, and groups in given AWS accounts
• Querying 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 a client-server application in Go to verify that applications deployed on devices using Zededa's IoT platform are working
• Built the Actions and Selectors for the application UI in React so that customers could write tests for their deployed applications
• Developed an EOS block producer configuration using Docker Compose and EOSIO to be deployed on Zededa's platform

Full Stack Web Developer
UCLA Athletics Hall of Fame   Apr. 2018 to Apr. 2019
• Added new athletes and teams to the Hall of Fame database and updated a Swift application to show this information to visitors
• Built and maintained a live UCLA athletics social media feed in Javascript and Python that used the Twitter and Instagram APIs

PROJECTS

Reddit Sentiment Analysis   May 2019
• Analyzed thousands of comments from r/politics to predict positive or negative bias towards Democrats and Republicans
• Transformed comment data using Python and Apache Spark DataFrames for use by a logistic regression machine learning classifier
• Used k-fold cross-validation to train a Spark ML model that predicted the bias of the rest of the data, and graphed results by region

Pangeo   May 2019
• Developed a decentralized Progressive Web App using Blockstack that stores users' location history as a journal on the blockchain
• Used the HTML Geolocation and Foursquare APIs to determine a user's location and whether they were visiting a point of interest
• Determined best overall hack by a judging panel of alumni designers and engineers at the UCLA internal hackathon Yeetcode

SKILLS/INTERESTS

Languages: Python, C++, Go, Java, Bash, Javascript, HTML/CSS
Frameworks/Technologies: Docker, Django, PySpark, PostgreSQL, Presto, React, Redux
Interests: Skateboarding, Biking, Basketball, Weightlifting, Slacklining, Reading, Traveling, Sneakers, Manga, Meditation

ACTIVITIES

Tutoring Chair
Upsilon Pi Epsilon   June 2019 to Current
• Organizes and leads midterm and final review sessions for Computer Science courses to help prepare students for upcoming exams
• Helps students with homework and programming assignments to help solidify Computer Science fundamentals throughout the quarter

Backend Developer
DevX   Jan. 2019 to Current
• Developing OnCampus, a web app that helps new UCLA students find clubs and student organizations that match their interests
• Built the web server backend using the Python framework Django and the club and user databases using PostgreSQL
• Deployed the entire application on AWS EC2 using Docker Compose to containerize each service and Caddy as the web server