Raymond Ji

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Education

University of California, Berkeley *Expected: May 2023*
B.A. Computer Science GPA: 3.767

Relevant Coursework: Algorithms, Artificial Intelligence, Computer Security, Databases, Data Structures, Machine Structures, Information Devices, Discrete Mathematics and Probability Theory, Data Science

Experience

Scale AI Jun 2021 - Aug 2021
Software Engineer Intern *San Francisco, CA*

- Designed an experimental feature to smartly extrapolate cuboids resulting in a 10 times speedup on select LiDAR annotation scenes, deployed on AWS EC2 instance interfacing with production data using WebSocket
- Developed MVP for correlation and behavioral annotation across 3D cuboids for an industry-leading AV customer
- Implemented support for ad-hoc custom feedback used by Operations for taskers in 3D task types
- Improved on task linters and developed features for Scale's LiDAR labeling platform, increasing tasker efficiency

UC Berkeley Division of Data Science Aug 2020 - Dec 2020
Software Development Engineer Intern *Berkeley, CA*

- Backend developer working on scaling up autograding system used in 5+ classes with over 1500 students
- Implemented support for custom grading parameters with Docker containers for Jupyter Notebook autograding
- Worked as part of a team on building an internal research matching platform using Django and PostgreSQL

UC Berkeley EECS Department Aug 2021 - Present
Undergraduate Student Instructor *Berkeley, CA*

- Teaching assistant for CSW186 (Database Systems), an upper division programming course focusing on relational database implementations, distributed transactions, NoSQL and MapReduce/Apache Spark
- Duties include hosting weekly office hours to help students with debugging and answering conceptual questions

UC Berkeley EECS Department Jun 2020 - Aug 2020
Data Structures/Discrete Mathematics Lab Assistant *Berkeley, CA*

- Helped teach students topics such as Union-Find, Dijkstra's, Prim's, Kruskal's, RSA, Discrete/Continuous Probability
- Assisted students in debugging projects as well as answering conceptual questions in office hours

Projects

Stocks Prediction Dashboard Github: https://git.io/JfokA

- Implemented a Naive Bayes classifier trained on 2000+ pieces of webscraped data with >80% accuracy
- Designed an interactive dashboard utilizing Flask and SQLite to support user accounts with custom portfolios
- Generates predictions using regression models created with real-time data from Yahoo Finance along with sentiment analysis on webscraped relevant news articles

Cryptographic File Drive

- Designed a secure file system using Go that supports creating, editing and sharing files between users as well as concurrency across multiple user sessions
- Ensured confidentiality of file contents using AES cipher block chaining encryption scheme and HMAC verification

Skills

Programming Languages

- Python, Java, C, Go, Javascript, Typescript, Scheme, SQL, HTML/CSS, RISC-V Assembly

Technologies

- Git, AWS, Docker, Flask, Django, Node.js, React, MongoDB, PostgreSQL, NumPy, Pandas