

Raymond Ji

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Education

University of California, Berkeley

Expected: May 2022

B.A. Computer Science, Minor in Data Science

GPA: 3.800

Relevant Coursework: Algorithms, Data Structures, Machine Structures, Structure and Interpretation of Computer Programs, Information Devices, Discrete Math and Probability Theory, Foundations of Data Science

Skills

Programming Languages

- Python, Java, C/C++, Javascript, Typescript, Scheme, SQL, HTML/CSS

Technologies

- Git, Flask, Node.js, Express, React, MongoDB, SQLite, NumPy, Pandas, Matplotlib, Seaborn

Experience

Scale AI

Summer 2021

Software Engineer Intern

San Francisco, CA

- Incoming Software Engineer Intern for Summer 2021

UC Berkeley Division of Data Science

8/2020 - Present

Software Development Engineer Intern

Berkeley, CA

- Developing autograding software for data science education, to be used at UC Berkeley and other institutions

UC Berkeley Computer Science Mentors

8/2020 - Present

CS 61B (Data Structures) Junior Mentor

Berkeley, CA

- Lead weekly discussion groups of 4-6 undergraduate students, teaching various topics on algorithms and data structures

UC Berkeley EECS Department

6/2020 - 8/2020

Academic Intern

Berkeley, CA

- Academic Intern for CS61B (Data Structures) and CS70 (Discrete Mathematics and Probability Theory)
- Helped teach students topics such as Union-Find, Dijkstra's, Prim's, Kruskal's, RSA, Discrete/Continuous Probability etc.

Guangzhou Automobile Group Co. (GAC) R&D Center Silicon Valley

6/2018 - 7/2018

Software Engineer Intern

Sunnyvale, CA

- Modeled realistic 3D visualizations of OpenStreetMap files using C++ and Unreal Engine to improve the accuracy of self-driving vehicles

University of Colorado - Colorado Springs

6/2017 - 8/2017

Research Intern in Distributed, Sustainable, and Cloud Computing (DISCO) Lab

Colorado Springs, CO

- Co-author of research paper discussing the performance and improvement of concurrent Spark parameter tuning using resource bottleneck awareness compared to ML or trial-and-error based methods
- Built a parser using Java to filter large data files and analyzed data logs for machine learning
- Published in IEEE ICCCN '18, received Best Paper Award

Projects

Stocks Prediction Dashboard

Github: <https://git.io/JfokA>

- Implemented a sentiment analyzer with >80% accuracy using NLTK and trained on 2000+ pieces of webscraped data
- Designed an interactive dashboard utilizing a Flask back-end and SQLite database allowing users to create and maintain accounts with custom portfolios
- Generates predictions using regression models created with data from Yahoo Finance along with sentiment analysis on webscraped relevant news articles

Daily Cards

Github: <https://git.io/Jf5DQ>

- Created a full-stack todo-list web application with a trading card theme using Node.js, Express, React and Heroku
- Designed and built backend service using REST API methods with MongoDB integration
- Used Redux to manage authentication state via JSON web tokens (JWT)

Badminton World Federation (BWF) API

Github: <https://git.io/JJZva>

- Designed an API with user dashboard using Flask and React for on-demand historical and current BWF rankings
- Implemented asynchronously caching to achieve 90% speedup in user GET request time