

Jason Chan

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Education

University of California, Berkeley

Berkeley, CA

B.A. - Double Major in Computer Science, Data Science - GPA 3.75

Expected May 2025

Coursework: Data Structures and Algorithms, Data Science Principles, Computer Security, Database Systems, Software Engineering
In Progress: Internet Architecture and Protocols, Artificial Intelligence, Operating Systems and Systems Programming

Experience

Back-End Developer Intern

May 2024 – August 2024

IBM

San Jose, CA

- Created scalable quality assurance programs for the IMS product's unit and integration tests in JUnit and z/OS
- Collaborated to design enhancements in the testing workflow to improve efficiency using Watson AI
- Led the implementation of the demo for IMS Transaction Orchestration's feature enabling external microservice access for customer usage
- Refactored an IMS database build pipeline to increase scalability and accessibility with an end-to-end deployment demo
- Modernized IMS operation commands for traditional z/OS command interfaces through REST APIs and CLI

Machine Learning Intern

March 2024 – May 2024

Infineon

Hybrid - San Jose, CA

- Quantized fp32 model ResNet50 in Pytorch for usage of fp8 optimization hardware using Neutron and Python
- Created statistical visualizations to compare performances of both models in pandas

Web Developer

September 2023 – Present

Code for Good

Berkeley, CA

- Collaborated biweekly with developers to design and develop features on web platforms for nonprofit organizations

Technology Lead

June 2023 – January 2024

Citro Tech

San Jose, CA

- Hosted a weekend-long virtual hackathon with 14 workshops for 500+ attendees from 45 countries
- Coordinated with speakers to hold events and workshops, as well as maintaining and updating the site
- Trained incoming members in web development in 1-1 sessions

Research Intern

June 2021 – Sep 2021

San Jose State University – Department of Computer Science and Bioinformatics

San Jose, CA

- Developed scripts to detect disease-causing DNA sequences by extracting motif sequences with a trained model
- Created files with different orientations of each sequence in FASTA and bed files using pandas, Position Weight Matrices and the Hidden Markov Model

Projects

Personalized Restaurant Recommender | React Native, Expo, Vercel, JavaScript, HTTP/REST API

August 2023 – Present

- An iOS React-Native application using Expo to recommend restaurants based on certain user preferences and history
- Hosts user information using MySQL database and utilizes Yelp and Google Maps APIs

YouTube User Video Analytics | Google Cloud, React, JavaScript, Express, HTTP/REST API

Nov 2022 - January 2023

- Web-Application in React that displays statistical data based on the user's historical interactions and trends on Youtube
- Developed a full stack application using REST APIs and Google Cloud for backend services and React as frontend

Technical Skills

Languages/Technologies/Skills: Java, Python, HTML/CSS, JavaScript, C/C++, HTTP/REST API, JSON, SQL, Ruby

Frameworks/Libraries: React, Express, Expo, Open API, Pandas, NumPy, Matplotlib

Developer Tools: Git, GitHub, Google Cloud, VSC, IntelliJ, Jupyter, Postman, curl, Docker, Maven, Gradle, Ansible

Extracurricular

Clubs: Computer Science Undergraduate Association, CSA, Code for Good @ Berkeley