

Vincent Do

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Education

University of California, Berkeley

Berkeley, CA

B.A. Computer Science

May 2024

- Relevant Coursework: Efficient Algorithms (IP), Intro to Databases (IP), Fundamentals of Blockchain Technology (IP), Data Structures, Interpretation of Computer Programs, Information Devices and Systems, Computer Architecture, Discrete Mathematics, Probability

Work Experience

Software Engineering Intern

Remote

Coinbase

June 2022 - Present

- Programmed a command line interface to create a new payment method completely from the command line
- Created dozens of code templates, working with .yaml, .rb, .go, .graphql, .bazel, and .json files to integrate new payment methods from both the Ruby monorail and the Golang monorepo
- Populated and modified 20+ files to implement payment method specific functions with corresponding documentation, reducing the time it takes to create a new payment method from weeks to just a few hours
- Developed reusable helper functions to expand scaffolding commands past payment methods, further reducing the time it takes to create a new payment policy, service, and more

Course Staff/Co-lecturer - Introduction to Cloud Computing

Berkeley, CA

UC Berkeley

June 2022 - Present

- Assisted in building course curriculum for a semester-long course relating to the applications of cloud computing and several AWS tools including IAM, S3, EC2, DynamoDB, RDS, Lambda, Sagemaker, and more
- Leading weekly lectures as a co-lecturer for a class of ~100 to teach general concepts such as microservice architecture, Docker, Kubernetes, web security, and basic foundations to Git and text editors

President

Berkeley, CA

Cloud at California (Cloud Computing Organization)

Aug 2021 - Present

- Directed five different sub-branches: Education, Dev Consulting, Research, Internal, and Competitions to create a united cloud computing organization to streamline hands-on AWS applications for a club of 50+
- Engaged in group projects to facilitate cloud computation learning and application
- Directly worked with several startups to coordinate cloud computing platform commissions and consulting

Academic Intern

Berkeley, CA

UC Berkeley Electrical Engineering & Computer Sciences (CS61A)

Aug 2021 - Dec 2022

- Worked alongside a team of professors and TA's to facilitate a variety of introductory programming structures, including recursion, control logic, and scheme to teach a class of 30+ students on a weekly basis
- Boosted students' performance by preparing and presenting lectures to enforce good programming practices and principles and guided students through the debugging process by answering questions on class forums

Marketing Intern

Santa Clara, CA

JP Graphics, Inc.

Jun 2019 - Dec 2019

- Worked closely with the CEO of the company to redesign the UI/UX for the company website, mainly using typography to create hierarchy and clarity while also enforcing consistency across the company website
- Utilized Adobe Premiere Pro and company social media to create promotional videos for 4000+ potential clientele

Relevant Projects

Nonrelational Database

Summer 2022

- Utilized Boto 3 with the DynamoDB APIs to simulate a bookstore database interaction
- Created a table to store and retrieve data using AWS DynamoDB, Cloud9 and Python
- Stored data on the books' title, author, and format and allowed users to browse or sort by the book's history or biography

Simple Git

Fall 2021

- Created a simulated version-control system using Java using file I/O and persistence, hashing, and graphs
- Enabled saving, restoring, branching, and merging of directory states by working with blobs, trees, and commits

Numpy in C

Spring 2021

- Developed a simple version of numpy in C, implementing matrix functions such as add, mul, sub, and pow, and fill
- Incorporated SIMD instructions, parallelization, loop unrolling, and cache blocking to ensure effective optimization

Skills

Technologies: Python, Java, C, Golang, Ruby, Scheme, SQL

Frameworks & Tools: Git, Bash, Linux, RISC-V, NumPy, HTML, CSS, Logisim

Languages: English, Vietnamese (Seal of Biliteracy)