

James Fletcher

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EDUCATION

University of California, Berkeley

Berkeley, CA

BS in Electrical Engineering and Computer Science; GPA: 3.5

Graduation: May 2022

Relevant Coursework: Data Structures, Algorithms, Cryptography, Computer Security, Database Systems, Parallel Computing, Artificial Intelligence, Computer Architecture, Principles of Data Science, CS Ethics

EXPERIENCE

Amazon

Seattle, WA

SDE Intern - Full Stack

May 2021 - Aug 2021

- Built RESTful API and internal dashboard for relaying mission critical information across multiple teams within a department, enabling on-call engineers to respond to crises quickly and with more information.
- Went beyond the scope of my project to build internal data access tools for my team's databases.
- Utilized and improved skills in Java, Spring, Typescript, React, DynamoDB, and other AWS technologies.

EDU Express Micro Schools

Remote

JavaScript and Python Coding Teacher and Curriculum Developer

July 2020 - May 2021

- Designed dynamic, scalable test and feedback generator for coding challenges (complete with unit testing, feedback, and debugging help) to run in limited web environment using JavaScript
- Developed current computer science curriculum including over 30 lessons, challenges, and projects
- Tutored classes of 4-8 middle/high school students in JavaScript, Python, and CS fundamentals

Ipse, LLC - A Machine Learning App Development Startup

San Luis Obispo, CA

Product Development Intern

May 2019 - August 2019

- Worked closely with CEO to develop the first prototype of the startup's app using self learned JavaScript, several Google Workspace APIs, bootstrap, and HTML/CSS (some details omitted due to NDA)
- Continued development using iterative design approach - Interviewed 15+ university administrators, professors, and students to evaluate app, analyze requirements, and improve initial prototype.
- Co-ran customer interviews, research, and presentations to succeed in the National Science Foundation I-Corps Startup program, securing \$50,000 in funding and advancing to the national program

EXTRACURRICULAR

Codebase Berkeley

Berkeley, CA

Client Project Developer

January 2021 - Present

- [Codebase](#) is a student-run software engineering club that builds software projects for high-growth startups
- Worked with KeepTruckin to serve ML models via REST microservices running on Kubernetes and Seldon Core, enabling routing and scaling of their detection models - [Medium article](#)

Computer Science Mentors

Berkeley, CA

Senior Mentor, Co-Lead on Content Creation Committee

February 2019 - Present

- Taught weekly adjunct sections for a Data Structures class in Java and a Fundamentals of CS class in Python to enhance student experience, establish safe learning spaces, and build knowledge of the material
- Guided groups of 5 Junior Mentors in material, teaching strategies, and pedagogy for their own sections

TECHNICAL SKILLS

Programming Languages: Python, Java, Javascript, React, TypeScript, C, Go, C#, SQL, HTML/CSS

Technical Skills: Kubernetes, Docker, AWS (DynamoDB, Lambda, S3, Pipeline, Cloudwatch), Seldon Core, algorithms, data structures, system design, database systems, web security, application security, cryptography, prototyping, iterative design, object oriented programming, Git, Unix