

# Shay Ma

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## EDUCATION

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### UNIVERSITY OF CALIFORNIA, BERKELEY

August 2019 - May 2023

B.A. Computer Science (GPA: 3.75)

Relevant Coursework: Data Structures, Artificial Intelligence, Efficient Algorithms, Web Design, Internet Architecture, Computer Security, Principles of Data Science, Cloud Computing and SaaS, Systems Programming, Linux System Admin

## SKILLS

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**Languages:** Java, JavaScript, Python, PHP/Hack, Golang, C, SQL, HTML/CSS

**Tools:** Git, Jira, Agile, Figma

**Technologies:** React.js, Express.js, Node.js, React Native, GraphQL, Django, Spring, Prometheus, Android, Docker, AWS

## EXPERIENCE

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### META (FACEBOOK)

May 2022 - August 2022

Software Engineering Intern – Fullstack, Recruiting Products

- Created a recruiter management tool by using a queue to automate processes that took place in Excel spreadsheets.
- Decreased the average time to handoff a candidate's resume to the next recruiter from 6.7 seconds to 2.1 seconds.
- Improved the accuracy of assigning valid reviews by 12%, by filtering out unavailable recruiters in PHP.

### PANDORA & SIRIUSXM

June 2021 - August 2021

Software Engineering Intern – Backend, Ads Infrastructure

- Graphed over 20 visualizations, measuring API usage statistics by querying Prometheus metrics in Grafana.
- Enforced static code analysis tools in Django and Python to promote best practices across 3 teams and 20+ engineers.
- Practiced agile workflow using Jira and presented updates to team in daily standup meetings.

### PLEXTECH

January 2021 - December 2021

Project Developer – Backend, Security

- Built a database search tool to manage audit trails for CENTRL, a security company with series B funding.
- Developed a REST API using Spring Boot queries to manipulate data stored in MongoDB, and MySQL databases.

### UC BERKELEY

August 2020 - December 2020

Academic Intern – Computer Science 70: Discrete Math and Probability Theory

- Assisted in teaching course curriculum to university students by answering questions and explaining key concepts.
- Facilitated discussion and collaboration in breakout rooms over Zoom with groups of about 12 students.

## PROJECTS

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### BEAR CHAT (Social Media Platform)

- Developed a backend web server using Golang and managed data with SQL queries, allowing users to securely register for accounts, add friends, and share posts with each other.
- Implemented 3 microservices (authentication services, user profiles, and posts) packaged in containers run on Docker.
- Deployed with Amazon Web Services and set up a Neptune Graph Database to store friendship data between users.

### MUSE MATCH

- Designed and developed a mobile application to match users by their music taste using React Native and Figma.
- Connected to Spotify's API to generate profile recommendations based on a users' liked songs and artists.

### BUDGET TRACKER

- Developed a budgeting web application for college students to track weekly expenses and visualize spending.
- Integrated backend routes using Express.js and Node.js. Create databases using MySQL to store user purchases.

## LEADERSHIP

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### BERKELEY ANOVA

External Relations Officer

January 2021 – Present

- Teach computer science concepts to middle and high school students at under-resourced schools in the Bay Area.
- Facilitate and lead weekly lessons on STEM education for 50+ volunteers. Mentor teams at a virtual hackathon.