David Zhu

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WORK EXPERIENCE

Branch Metrics, Palo Alto, CA   **May 2023 – Aug. 2023**
Software Engineer Intern
- Led development and design of Flipper, a React app for visualizing and managing feature flags across 300+ microservices, which replaced Branch's old flag management platform to make the process safer and 80% faster. Presented a demo to the CTO and Engineering department with highly positive feedback.
- Facilitated weekly progress reviews with engineering and UX teams to outline project specifications and deadlines.
- Implemented Flipper's front-end interfaces, REST APIs, and backend systems with Typescript, Express, AWS, and Axios.
- Created an automated CI/CD pipeline using GitHub Actions and utilized Docker and Kubernetes for deployment to both staging and production clusters.

RheoSense, San Ramon, CA   **May 2022 – Aug. 2022**
Software Engineer Intern
- Automated 500+ daily XML and SQL queries to streamline JSON data transfer between MySQL and Quickbooks, saving several hours of daily manual input by the Sales team.
- Designed and deployed a diagnostic tool, leveraging jQuery and scripting to parse 1,000s of hardware logs into MySQL for examining product health, which led to the company's first product-monitoring software for the field engineers.
- Built a .NET and C#-powered graphical interface for uploading files and images to AWS S3 buckets and internal dashboards, which enabled pharmaceutical clients to securely configure confidential information input to databases manually.

Go Overseas, Berkeley, CA   **May 2019 – Aug. 2019**
User Analytics Intern
- Researched and quantified user engagement trends in a digital campaign, leveraging Jupyter + Python to create data visualizations for a website with 1,000,000+ users, providing insights into consumer engagement patterns.
- Analyzed KPIs with Google Analytics to introduce new content marketing strategies for search engine optimization, increasing social media interaction by ~20%.

EDUCATION

University of California, Berkeley + Haas School of Business   December 2022
B.A. Computer Science and B.S. Business Administration   GPA 3.7/4.0

PROJECTS

Rezoom | React, Firebase, JavaScript
- Worked with a team of UX designers, marketers, and engineers over 3 months to iteratively design a user-focused platform for finding on-campus opportunities at Berkeley, resulting in ~200 student sign-ups.
- Applied agile development methodologies to prioritize feature implementation and coordinate parallel development.
- Conducted focus group interviews with prospective users to identify pain points and determine product-market fit.

Berkeley Maps | Java
- Integrated an interactive mapping software of the city of Berkeley in a backend web server to be paired with frontend UI, enabling address retrieval and optimal path finding using graph traversal algorithms.
- Developed an API handler in Java to aggregate map images based on user queries, enabling map zooming and scrolling.

SKILLS

Java, Python, SQL, Typescript, JavaScript, HTML, CSS, React, Angular, Express.js, Node.js, Tailwind.css, Webpack, Docker, Kubernetes, AWS (S3, EC2), MongoDB, MySQL, Chai, Jest