Mary (Rui Li) Xu

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Education_____

University of California, Berkeley   Fall 2017 - Fall 2020
B.A. in Computer Science | Minor: Data Science
- **Activities:** Upsilon Pi Epsilon Honor Society (Outreach Chair) - *top one-third of declared CS majors*
- **Relevant Coursework:** Data Structures, Algorithms, Operating Systems, Machine Learning, Networking, Computer Security, Databases, Machine Structures, Principles of Data Science, Discrete Math/Probability Theory, Human Factors Design.

Skills_____

Programming Languages - Python, Java, JavaScript/TypeScript, C, SQL, GraphQL, Golang, HTML, CSS, PHP, Scheme
Frameworks and Industry Tools - React, Android, Swift/iOS, Django, D3, Git, Ardunio, Pandas, wire-framing, graphic design

Experience_____

Asana - Software Engineering Intern   May 2020 - Aug 2020
- Full-stack product engineer on the Portfolios team (Tech stack: React TypeScript, server-side JavaScript, Python).
- Took on sprint tasks such as building components, improving data loading, and setting up client/server-side mutations that contributed to the launch of Portfolio Status Reports while effectively collaborating with various roles across the organization.
- Wrote datascript using Asana API, configured cron job & Redash dashboard to analyze on-call efficiency at addressing new issues.
- Led a portion of technical design and task breakdown of new team project, communicated through design docs and Asana tasks.

Facebook - Software Engineering Intern   May 2019 - Aug 2019
- Worked on the Pages Core Experience team to redesign the consumer-facing side of the Facebook Pages web surface.
- Implemented the beta web Reviews and Recommendations tab as primary project (Tech stack: React.js, Relay, GraphQL, PHP).
- Built all functional surface components and setup data queries/mutation connections to the backend, acted upon user feedback.
- Discussed feature design and gained context on relevant code through proactive communication with cross-functional teams.

Facebook University - Android Development Intern   Jun 2018 - Aug 2018
- Worked in a team of three to design and develop Blind8, a conversation-focused dating app; 3 of 60 teams to present to the CEO.
- Implemented the user profile and conversation list views, instant messaging (Parse live-query), and push notifications (Firebase).
- Designed application branding (Sketch) and wireframes (Figma), and optimized UI and UX for a mobile-first experience.

Berkeley CodeBase - Project Manager; Software Developer   Sept 2017 - Dec 2019
- Led teams of six developers on semester-long software consulting projects for high-growth companies in the Bay Area.
- Responsible for sourcing potential clients, maintaining client communication, scoping project roadmaps, organizing team meetings and standups, and writing tech stack ramp-up resources to support developers.
- Fall 2019: Worked with Postman to create visual representations of API responses using their new data visualization feature.

UC Berkeley CS 61A - Course Tutor   Jan 2018 - Dec 2019
- Led multiple group mentoring sections for students in the intro CS course, providing review lectures and problem walkthroughs.
- Hosted office hours, graded assignments, proctored exams, and mentored first-time tutors weekly on teaching techniques.

Projects_____

HackerRank: Collaborative Editor Plugin - Project Management   Jan 2019 - May 2019
- Enable real-time multi-user collaborative editing in an Eclipse Che (in-browser IDE) workspace with CRDT conflict resolution.

Aptiv: Self-Driving Vehicle Dashboard - Data Science/ML   Sept 2018 - Dec 2018
- Derived a driver takeover readiness heuristic and simulation based on sensor data such as head position and external obstacles.