

# Mary (Rui Li) Xu

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## Education

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### University of California, Berkeley

Fall 2017 - Fall 2020

B.A. in Computer Science

GPA: 3.74

- **Activities:** Upsilon Pi Epsilon Honor Society (Position: Outreach Chair) - *top one-third of declared CS majors*
- **Relevant Coursework:** (\* = current) Data Structures, Algorithms, Operating Systems\*, Computer Security, Databases, Machine Structures, Principles of Data Science, Discrete Math/Probability Theory, Tech Entrepreneurship\*, Optimization Models\*.

## Skills

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**Programming Languages** - Python, Java, JavaScript, C, SQL, GraphQL, Golang, HTML, CSS, PHP, Scheme

**Frameworks and Industry Tools** - React, Android, Django, D3, Git, Arduino, Pandas, wire-framing, graphic design

## Experience

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### 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 Reviews and Recommendations tab as primary project (Tech stack: React.js, Relay, GraphQL, PHP).
- Built all functional surface components and setup data querying and mutation connections to the backend.
- Discussed feature design with content strategists, received and acted upon user feedback, and sought context on relevant code through extensive 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 to spark genuine connections.
- Learned and utilized the native Android platform to create a series of mini-projects and the final application.
- Implemented the user profile, conversation list, 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.
- Chosen among 60 teams to present project to Mark Zuckerberg at program conclusion.

### Berkeley CodeBase - Project Manager; Software Developer

Sept 2017 - Present

- Lead 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.
- Currently working with Postman to create visual representations of API responses using their new data visualization feature.

### UC Berkeley CS 61A - Course Tutor

Jan 2018 - Present

- Lead two weekly small group mentoring sections for students in the introductory computer science course.
- Guide students in reviewing material by preparing lectures, walking through practice problems, and offering general support.
- Host office hours, grade assignments, distribute/collect exams, and mentor first-time tutors weekly on teaching techniques.

## Projects

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### HackerRank - Project Management

Jan 2019 - May 2019

- Built a real-time pair-programming plugin for multiple user collaborative editing in an Eclipse Che (in-browser IDE) workspace.
- Supports conflict resolution with Atom Teletype CRDT; product to be integrated into HackerRank's online interview platform.

### Aptiv - Software Development

Sept 2018 - Dec 2018

- Derived a driver takeover readiness heuristic and vehicle dashboard simulation based on various self-driving car sensor data such as head position, external obstacles, and car state (Tools: Pandas, NumPy, Unity).
- Used by the autonomous driving company to facilitate transition from self-driving mode to manual mode in emergencies.