

Bixin Zhang

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Objective

Actively seeking opportunity in Software Engineer Internship to learn, grow and make an impact on the world.

Education

Cornell University, B.S. in Computer Science
GPA: 3.63

August 2019 - May 2023
Ithaca, NY

Relevant Coursework

Object-Oriented Programming and Data Structures, Design and Programming for the Web, Functional Programming, Analysis of Algorithms, C++ Programming, Probability | '21 Spr: Computer Vision, Computer System Organization, Network

Project Experience

Back-End Developer, Cornell Course Management System August 2020 – Present

- Implement APIs interacting with JPA/MySQL using Java, connect endpoints to front-end using TypeScript, and conduct integration tests and unit tests to ensure proper functionality.
- Increase overall test coverage by 15% by adding test persistence unit running on H2 database and separating code base to testable logic. The system serves more than 8,000 users over 40 courses.
- Facilitate new members with environment set-up, on-boarding projects, and contribute to system's wiki.

Back-End Developer, Eathaca August 2020 - Present

- To promote sustainability through food waste minimization, researched and implemented the following features from the ground up: grocery expiration management, variety user types, recipe search based on existing groceries, public posts using Java in Android Studio.
- Deploy the app on Firebase to support user authentication and data synchronization & storage in real-time.

Front-End Developer, Mandarin Urban Dictionary August 2020 - Present

- Develop intuitive and mobile-friendly front-end interface of the web application using JavaScript, React.js, React Hooks, and Material-UI, supporting words submission, edits, comments, up/down votes, and trends display.
- Use server-side rendering and lazy loading to optimize performance; develop reusable components to speed up development process.
- Compile system documentations to assist trouble shooting, progress tracking, and easier transition for future members.

Full-Stack Developer, ArtForChange Organization February 2020 - April 2020

- To tackle the challenge of lack of in-person experience because of Covid-19, built a web application to facilitate artwork auctions with HTML, CSS, JavaScript, and PHP by showcasing artworks and their statuses.
- Designed, implemented, and refactored a PostgreSQL Database to efficiently serve information of more than 90 artworks from 15 categories.

Leadership & Volunteer Experience

Volunteer at Girls Who Code, Women Computing at Cornell (WICC) November 2019 - February 2020

- Collaborated with a team of 7 to deliver workshops aiming to empower young females to explore the field of Computer Science.
- Mentored a local high-school student with a project in Python including brain-storming project ideas, defining project scope, and identifying related technical topics

Co-Founder, ArtForChange Organization September 2018 - May 2019

- Led a team of 5 to collect art donations from students, faculties and local artists.
- Consolidated over 50 meetings and art workshops after school through close communication with supervisors and members.

Skills & Abilities

- **Programming Languages:** Java, Python, TypeScript, JavaScript, HTML, CSS, SQL, PHP
- **Technologies and Frameworks:** React.js, Django, Firebase, Android Studio, Git, Linux