Jimmy Zhang

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Education

Carnegie Mellon University | Pittsburgh, PA **May 2024**

Bachelor of Science in Computer Science, Minor in Machine Learning, Minor in Business Administration

- GPA: 4.0/4.0, Dean's List High Honors (Fall 2020, Spring 2021, Fall 2021, Spring 2022, Fall 2022)
- Selected Coursework: Deep Learning (10-707), ML with Large Datasets (10-605), Convex Optimization (10-725), Distributed Systems (15-440), Computer Systems (15-213), Probability and Computing (15-259), Algorithm Design (15-451), Parallel Algorithms (15-210), Functional Programming (15-150), Theoretical Computer Science (15-251)

Cinco Ranch High School | Katy, TX **May 2020**

- GPA: 4.84/5.0, Rank: 1/787, Valedictorian

Technical Experience

Teaching Assistant – *Carnegie Mellon University School of Computer Science* **Aug 2021 – present**

- Taught probability, parallel algorithms, functional programming, and discrete math courses over 4 semesters
- Hold recitations for 25+ students twice per week to review lecture concepts and supervise collaborative labs
- Conduct office hours for 400+ students to help with homework and conceptual understanding
- Grade exams and weekly homework assignments with other teaching assistants

Software Engineer Intern – *Meta* **May 2022 – Aug 2022**

- Created a Python command line interface to aggregate noise metrics when identifying performance regressions
- Integrated bias analysis into over 50,000 continuously running end-to-end Jest tests to report ongoing breakages
- Reduced number of Instagram and Messenger performance irregularities pushed to production by 30%
- Developed SQL queries and data aggregation libraries to allow test authors to analyze historical test data and trends
- Collaborated cross-functionally with developers to provide more coverage against flaky performance tests

Software Engineer Intern – *Grapevine AI* **Jun 2021 – Aug 2021**

- Created a dynamic calendar page in React that helps users schedule meetings and reminders with their contacts
- Integrated robust integration testing and error handling with Cypress and Sentry
- Managed 100+ quality assurance bugs and updates in a fast-paced Agile environment
- Collaborated with UI/UX designers to create and implement new prototypes for the Grapevine AI dashboard website

Full Stack Software Engineer Intern – *Boo Dating* **Jun 2021 – Aug 2021**

- Implemented full stack daily question board and voice messaging features that boosted activity and retention by 300%
- Prototyped fronted designs and translated multi-layer wireframes to Flutter
- Led REST API lifecycle development with thorough design, documentation, and Chai integration testing
- Communicated with growth and product teams about business decisions, database schema designs, and other issues

Web Development Intern – *Responsival* **Feb 2021 – Apr 2021**

- Implemented responsive, mobile-first web applications with HTML, CSS, and JS libraries
- Integrated technologies such as Webflow, AWS, and server-side JS into frontend development
- Collaborated with marketing department to incorporate SEO and increase client traffic by 500%

Projects

"Chessing" - Chess Discord Messaging Bot **May 2020 – Aug 2020**

- Created Discord bot that allows users to play chess, listen to YouTube media, and create randomized teams
- Designed using Node.js and MongoDB Atlas to store existing chess games across multiple channels
- Deployed with Heroku and GitHub to service over 100 users across 4 Discord servers

Involvement

Member – *CMU School of Computer Science Undergraduate Advisory Committee* **Jan 2021 – May 2022**

- Holding biweekly meetings with SCS Deans to discuss departmental concerns for diversity and research
- Improving feedback channels with administrators and promoting research opportunities to undergraduates
- Facilitating well-being and academic success of 200+ first-year students

Skills

Languages: Python, JavaScript, HTML, CSS, Java, SQL, C, Standard ML, Go, C++

Frameworks/Software: React, MongoDB, Git, GitHub, AWS, Node.js, GatsbyJS, Express, Flutter, REST API