Jimmy Zhang

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Education

Carnegie Mellon University | Pittsburgh, PA   **May 2024**
Bachelor of Science in Computer Science
- GPA: 4.0/4.0, Dean's List High Honors (Fall 2020, Spring 2021)
- Relevant Coursework: Principles of Imperative Computation (15-122), Mathematical Foundations for Computer Science (15-151), Matrices and Linear Transformations (21-241), Principles of Functional Programming (15-150), Great Theoretical Ideas in Computer Science (15-251), Calculus in Three Dimensions (21-259)

Cinco Ranch High School | Katy, TX   **May 2020**
- GPA: 4.84/5.0, Rank: 1/787, Valedictorian
- Awards: National Merit Finalist, Katy ISD Student Excellence Award in Mathematics

Technical Experience

Incoming Teaching Assistant – *Mathematical Foundations of Computer Science (15-151)*   **Aug 2021 – Dec 2021**
Software Engineering 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 an agile scrum 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
- Developed a custom eCommerce case study website with the Shopify Liquid templating language
- Collaborated with marketing department to incorporate SEO and increase client traffic by 500%

Projects

Song Match Alexa Skill   **Dec 2020 – Jan 2021**
- Created Alexa skill that allows users to receive a song match based on their preferences
- Structured using Alexa Skills Kit SDK for Node.js
- Deployed with Alexa Developer Console hooked to AWS Lambda endpoints

"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, deployed with Heroku and GitHub

Involvement

Member – *CMU School of Computer Science Undergraduate Advisory Committee*   **Jan 2021 – present**
- 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

Vice President – *CRHS Computer Science Club*   **Aug 2017 – May 2020**
- Mentored computer science novices and competitive programming teams in Java and Python
- Organized AP Computer Science curriculums and tutoring sessions for incoming AP test takers
- Led programming teams to numerous top finishes in UIL Computer Science competitions and HP Code Wars

Skills

Languages: JavaScript, HTML, CSS, Java, Python, C, Standard ML
Frameworks/Software: React, MongoDB, Git, GitHub, Node.js, GatsbyJS, Express, Flutter, REST API, AWS Lambda