

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)
- Coursework: Principles of Imperative Computation (15-122), Principles of Functional Programming (15-150), Mathematical Foundations for Computer Science (15-151), Great Theoretical Ideas in Computer Science (15-251)

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
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Technical Experience

Teaching Assistant – *Mathematical Foundations for Computer Science (15-151)*

Aug 2021 – present

- Teach recitations for 25+ students twice per week to review discrete math content from lectures
- Hold office hours for 200+ students to help with homework and conceptual understanding
- Grade exams and weekly homework assignments with other teaching assistants

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 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
 - 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%
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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
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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 80+ incoming AP test takers
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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