Hanzhang Luo

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EDUCATION

University of California - Santa Cruz   September 2022 - Present

B.S. Computer Science | B.S. Electrical Engineering | GPA: 3.98 | Summa Cum Laude | 3x Dean's Honors | Junior Standing

 • **Relevant Coursework**: Discrete Math, Probability Theory, Computer Systems and Assembly, Linear Algebra, Vector Calculus, Computer Systems and C programming, Advanced Data Structures, Ordinary Differential Equations

Cupertino High School   August 2018 - June 2022

Merit Diploma | GPA: 4.0+ | 11 AP Courses | 3 Honor Courses | Dual Seal of Biliteracy

SKILLS

Technical: JavaScript, Python, C++, C, Java, Node.js, HTML, CSS, Android, R
Areas: Deep Learning, Natural Language Processing, Web Applications, Mobile Development, UI / UX,
Tools: Git, LaTeX, TensorFlow, Figma, AutoCAD, Cura, Microsoft Office
Languages: Fluent in Chinese, Proficient in Spanish, Proficient in Japanese

WORK EXPERIENCE

FOUNDER @ Vigama   May 2022 - Present
 • Developed an AI-powered web application to automate low-level tasks and workflow with LLMs, speech recognition, and vector databases
 • Nurtured a diverse team of five developers and designers, promoting a collaborative environment through weekly meetings and company wiki
 • Facilitated project management and roadmap through Notion and ClickUp with the agile framework and story points
 • Raised $14,000 in funding through pitch competitions and private investors

FOUNDER AND LEAD TUTOR @ TutorTee   September 2019 - June 2022
 • Founded and grew tutoring business from scratch to 20+ students in mathematics, computer science, and academic olympiad tutoring
 • Managed 3 part-time tutors to develop individualized course curricula and communicated with parents for session logistics

FRONT-END INTERN @ Gradder   June 2020 - September 2020
 • Conducted weekly meetings, wrote unit tests, and facilitated QA checks to ensure software quality
 • Reached 100+ schools as an AI Education Management Platform to provide equitable access to education in developing countries
 • National winner of the Diamond entrepreneurship challenge

PROJECTS

MINDFUL AI   Python, LLMs, Neural Networks, React, Natural Language Processing,
 • Designed and implemented a robust system incorporating neural networks and LLMs to identify and analyze microaggressions in everyday text- and speech-based communications
 • Developed an innovative real-time suggestion engine providing user feedback to foster healthier communication habits

STOCK DAY TRADER   Python, Scikit-learn, Numpy, Web Scraping
 • Constructed a machine learning algorithm to gauge public sentiment of the stock market, enabling a fundamental analysis of market trends
 • Automated the process of data collection, cleaning, and preparation through a Python-based web scraping tool targeting social media platforms

GARAGE SALE   Java, Android, Tensorflow, HTML & CSS
 • Developed an android app that simplifies the selling process by identifying items with object detection, finding the optimal price and quality of the item, and allowing listing the product on the market with a simple click
 • Lead the Android app and landing page development incorporating modern front-end practices

AWARDS & CERTIFICATIONS

AIME Qualifier (Mathematical Association of America), AP Scholar with Distinction (2x) (College Board)
Honorable Mention (Open Hacks), First Place Social Good Award (Digitized Hackathon), First Place Award, (Code Day)

Deep Learning Specialization deeplearning.ai (Coursera, 2023), Clickup Certificate (ClickUp, 2023)
Advanced Data Structures (Stepik, 2023) MERN Stack, Full stack React Redux Node.js (Udemy, 2021)