

Hanzhang (Jack) Luo

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EDUCATION

University of California - Santa Cruz

September 2022 - Present

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

• **Relevant Coursework:** Computer Systems and C programming, Advanced Data Structures, Machine Learning, Programming Abstractions, Computer Systems and Assembly, Discrete Math, Probability Theory, Linear Algebra, Vector Calculus, 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, TensorFlow, Figma, AutoCAD, LaTeX, Microsoft Office

Languages: Fluent in Chinese, Proficient in Spanish, Proficient in Japanese

WORK EXPERIENCE

CO-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

LINGUA SCAN

Flutter, Firebase, OpenCV, DeepL

- Utilized machine learning models and OpenCV for real-time object recognition, subsequently translating them dynamically into desired language
- Developed a feature to record users' scanned objects, allowing reinforcement through a personalized chatbot designed to simulate conversation based on individual language acquisition.

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

AWARDS & CERTIFICATIONS

First Place Social Good Award (Digitized Hackathon), First Place Award, (Code Day), Honorable Mention (Open Hacks),
AIME Qualifier (Mathematical Association of America)

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)