

Inan Xu

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EDUCATION

University of California, San Diego

Aug 2024 - 2026

Computer Science, Master of Science

University of California, Santa Cruz

Jun 2023

Computer Science, Bachelor of Science. GPA: 3.88, graduated in 3 yrs.

TAs: Algorithms and Data Structures, Machine Learning, Systems and C Programming

EXPERIENCE

Software Engineer

Aug 2023 – Aug 2024

ShastaLab

San Leandro, CA

- Developed in-house LIMS (Laboratory Information Management System), reducing expenses for third-party app using Python and open source library SENAITE.
- Replaced manual creation of lab reports by auto-importing data from existing analytical software to Word/Excel via Microsoft Visual Basic.
- Halved mass-spec experiment runtime overhead by linking machine Analyst software with LIMS using Python.

Software Developer

Aug 2021 – Present

PathFinder Startup

Remote

- Developed detailed filters for searching posts, reducing user search times and increasing retention while streamlining calls to backend RESTful API.
- Built and connected frontend components for AI-powered mentorship tool to backend AI API services using functional React and Node.js.
- Implemented automatic Less.js compilation to CSS on site deployment in Netlify and GitHub CI/CD pipeline, halving unnecessary duplicated code.

Mobile Android Developer

Apr 2019 – Mar 2021

LMYA Sports Volleyball

Moraga, CA

- Created in-app scheduling between coaches and trainees, reducing confirmation times by connecting NativeScript app with RESTful API built in Google Apps Script.
- Constructed in-person verifiable payment system used by over 150 unique coaches in 3 months via QR code exchanges and Google Firebase authorization.

Research Assistant

Mar 2023 – Jun 2024

MISFIT Lab, UC Santa Cruz

Remote

- Lead 15 students to develop accessible alt-text image crowdsourcing systems via Django and AWS cloud services.
- Built testing and deployment workflows using Github Actions and AWS Elastic Beanstalk to streamline iterative development process.
- Integrated AWS SSO credentials into existing workflows, improving security by removing long-term access keys from server environments.

PROJECTS

AI Receptionist Chatbot | *OpenAI API, Python, React*

- Created a chatbot mimicking a receptionist that handles basic questions or tasks and provides contact for further queries using the OpenAI API, VectorDB, and React.
- Builds upon GPT-4 knowledge via Retrieval Augmented Generation (RAG) from user-provided data to more effectively mimic personality and background knowledge.

NoSight | *TensorFlow, React, Google Cloud*

- Developed a real-time photo sharing image enhancement platform for the vision impaired at CalHacks hackathon.
- Built mobile frontend in React with upscaling model deployed on Google Cloud, connected by Google Firebase.

TECHNICAL SKILLS

Languages: Python, C/C++, JavaScript, TypeScript, Java, MySQL, PHP, HTML/CSS

Frameworks: React, Node.js, Tensorflow, OpenCV, PyTorch, jQuery, FFmpeg, OpenAI API, Pinecone

Other: AWS, Google Cloud, Git, MongoDB, Docker, Jest, Trello