Inan Xu

inxu@ucsc.edu | linkedin.com/in/inanxu | ixukw.github.io

EDUCATION

University of California, San Diego — Fall 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.
TAships: Algorithms and Data Structures, Machine Learning, Systems and C Programming

EXPERIENCE

Software Developer — Aug 2021 – Present
PathFinder Startup — *Remote*
- Built and connected frontend components for AI-powered mentorship tool to backend AI API services using functional React and Node.js.
- Developed detailed filters for searching posts, reducing user search times and increasing retention while streamlining calls to backend RESTful API.
- Implemented automatic Less.js compilation to CSS on site deployment in Netlify and GitHub CI/CD pipeline, halving duplicate code in repo and reducing error potential.

Mobile App Developer — Apr 2019 – Mar 2021
LMYA Sports Volleyball — *Moraga, CA*
- Created in-app scheduling between coaches and trainees, resulting in significantly less scheduling overhead by connecting NativeScript app with RESTful API built in Google Apps Script.
- Constructed convenient payment system with in-person verification used by over 150 unique coaches in 3 months by implementing QR code exchanges with Google Firebase authorization.
- Re-designed and implemented app UI into a bottom navigation bar layout, decreasing user confusion by incorporating feedback from usability testing results.

Research Assistant — Mar 2023 – Present
MISFIT Lab, U.C. Santa Cruz — *Remote*
- Co-lead of 15 undergraduates developing alt-text image crowdsourcing systems utilizing Django, AWS S3, RDS, Rekognition, and Elastic Beanstalk services to improve image accessibility for disabled communities.
- Improved deficiencies while capturing crowd object detection data by standardizing camera angle, height, and lighting, leading to increased recreation accuracy in simulator for training robots.

Research Intern — Jun 2022 – Sep 2023
Inclusive Privacy Lab, University of Illinois, Urbana-Champaign — *Remote*
- Co-authored two papers accepted to top 1 human-computer interaction conference on the creation and utilization of a novel private object image dataset from blind photographers in obfuscation applications.
- Developed demo to blur private objects in uploaded images using off-the-shelf vision models, Tensorflow, and Next.js, highlighting key takeaways for practical release via multiple user studies.

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 mimic personality and knowledge background.

YouTube Comment Downloader | *React, YouTube Data API, GitHub Actions*
- Developed a React webapp for downloading bulk YouTube comments to CSV using the JS Fetch API.
- Asynchronous API requests adhering to rate limits and token-based pagination, with checkpoints if limit exceeded.

TECHNICAL SKILLS

Languages: JavaScript, Python, C/C++, Java, MySQL, PHP, HTML/CSS
Libraries: React, Node.js, TensorFlow, OpenCV, PyTorch, OpenAI API, Langchain, VectorDB, jQuery, FFmpeg
Tools: Git, AWS, Google Cloud, MongoDB, Docker, Jest, Trello