

Inan Xu

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EDUCATION

University of California, San Diego

Aug 2024 - Jun 2026

MS in Computer Science

Available for June 23, 2025 start

University of California, Santa Cruz

Jun 2023

BS in Computer Science, GPA: 3.88

Teaching Assistant: Algorithms and Data Structures, Machine Learning, Systems and C Programming

EXPERIENCE

Software Engineer Intern

Jan 2024 – Jun 2024

ShastaLab

San Leandro, CA

- Eliminated expenses for third-party app by creating in-house LIMS (Laboratory Information Management System) software using Python and SENAITE library.
- Replaced manual creation of lab reports by auto-importing data from existing analytical software to Word/Excel via Microsoft Visual Basic and auto-export from Analyst software.
- Reduced overhead time for experiment-analyzer data pipeline by connecting input/output of equipment controller to in-house LIMS and Analyst data software.

Software Developer

Aug 2021 – Dec 2023

PathFinder Startup

Remote

- Improved search efficiency by implementing filters for searching posts, reducing user search times and increasing retention while streamlining calls to backend RESTful API.
- Halved duplicate CSS files in codebase by implementing automatic CSS compilation in Netlify and GitHub Actions CI/CD pipeline.
- Built AI-integrated searchbar and landing page using functional React and Node.js, visited by 3000+ unique users during launch.

Research Intern

Jun 2022 – Sep 2023

Inclusive Privacy Lab, University of Illinois, Urbana-Champaign

Remote

- Accepted two papers into 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, hosted in Google Compute Engine.

Mobile Android Developer

Apr 2019 – Mar 2021

LMYA Sports Volleyball

Moraga, CA

- Reduced overhead for scheduling coaching sessions by building iOS/Android app connected to existing spreadsheets via Google Apps Script API to fully digitize previous paper-based scheduling and timecard systems.
- Implemented QR code based in-person verifiable payment system utilized by over 150 coaches within first 3 months using NativeScript and Google Firebase.

PROJECTS

Video Mosaics | *Python, FFmpeg, OpenCV*

- Detects and splices similar image frames in set of videos and creates a mosaic of all clips playing simultaneously using OpenCV template matching and FFmpeg.
- Reduces runtime by parallelizing splicing function and FFmpeg fast seek to avoid decoding full video file.

NoSight | *TensorFlow, React, Google Cloud*

- Developed real-time text enhancement app using trained vision models for the vision impaired at CalHacks hackathon
- Sharpened text by 50%+ using pretrained general upscaling model on HuggingFace with transfer learning on previous similar examples in Tensorflow.

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