

Inan Xu

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EDUCATION

University of California, Santa Cruz

Santa Cruz, CA

Computer Science, B.S. GPA: 3.89, cum laude.

Oct. 2020 – Jun. 2023

Teaching Assistants for: CSE101 Algos. & Data Structures, CSE40 Machine Learning, CSE13S Systems & C Prog.

EXPERIENCE

Software Developer

Aug. 2021 – Present

PathFinder

Remote

- Website for improving career searching via dynamic infographics and expert advice. (3000+ unique users)
- Wrote functional components (hooks) in React to build spotlight posts, web filters, and search features.
- Fast feature iterations incorporating user feedback via GitHub & Heroku CI/CD pipeline with agile sprint cycle.
- Top 15 in TigerLaunch Los Angeles Startup Competition 2022.

Mobile App Developer

Apr. 2019 – Mar. 2021

LMYA Sports Volleyball

Moraga, CA

- Co-developed Android/iOS app from scratch to schedule private coaching lessons for teens with over 150 coaches.
- Built app in NativeScript with Google AppScript to serve REST API for Google Sheets/Firebase database.
- Created payment and scheduling systems for in-person sessions, pivoted to online lessons during the pandemic.

Research Assistant

Mar. 2023 – Present

MISFIT Labs, UC Santa Cruz

Santa Cruz, CA

- Captured onsite crowd object detection data to analyze crowd simulations for autonomous robot navigation.
- Built a crowdsourcing site for the creation of alternate image text for the blind using Django and AWS.
- Created a React app to efficiently crawl online forums for large dataset creation (100k+ entries) for analysis.

Research Intern

Jun. 2022 – Sep. 2023

Inclusive Privacy Lab

Remote

- Co-authored paper with professors from UIUC, UW, CU accepted to CHI 2023 (top HCI conference) on the design/creation of a novel dataset containing private object photos from blind users.
- Developed apps in Next.js and Flutter to blur private objects in photos using off-the-shelf computer vision models.
- Conducted surveys and interviews for dataset creation and analysis.

PROJECTS

YouTube Comment Downloader | *React, YouTube Data API, GitHub Actions*

2023

- Developed a React webapp for downloading mass YouTube comments to CSV using the JS Fetch API.
- Asynchronous fast concurrent API requests while adhering to rate limits and token-based pagination.
- Efficient export to CSV with JSZip and includes checkpointing if API daily request limit exceeded.

NoSight | *TensorFlow, React, Google Cloud*

CalHacks 9.0, Oct. 2022

- Developed a real-time photo sharing image enhancement platform for the vision impaired at CalHacks 9.0.
- Built mobile frontend in React with upscaling model deployed on Google Cloud, connected by Google Firebase.

Image Classification via Self-Learning Model | *TensorFlow, Python*

Kaggle, Jun. 2023

- Top 5 in UCSC Kaggle competition for classification task achieving 85% accuracy with self-learning approach.
- Used transfer learning from Vision Transformers into pseudo-labeling on 50k image dataset with early stopping.

TECHNICAL SKILLS

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

Frameworks: React, NativeScript, Node.js, Flask, Django, MongoDB

Developer Tools: Git, AWS, Google Cloud, Docker, Visual Studio, Jest, Trello