

Inan Xu

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TECHNICAL SKILLS

- JavaScript/TypeScript, React, Angular, SQL, Git, HTML/CSS, PHP, Web APIs, Python, Java, C/C++

EDUCATION

University of California, Santa Cruz: Computer Science, B.S., 2023. GPA: 3.89, Dean's List.

Activities: ICPC Competitive Programming Club (Pacific Northwest Top 10), MISFIT Labs Research Assistant.

Teaching Assistants: C Programming (CSE13S), Data Structures & Algorithms (CSE101), and Machine Learning (CSE40).

Relevant Coursework: Software Engineering, Applied Machine Learning, Computer Vision, Algorithms & Data Structures, Data Visualization, Adv. Programming in C++, Computational Theory, Computer Architecture, Analysis of Algos.

EXPERIENCE

MISFIT Labs

Santa Cruz, CA / Remote

Research Assistant

Mar 2023 - Present

- Conducted field research using cameras to recreate a simulation for computer vision algorithms to analyze crowd behavior.
- Developed with other students an accessible site to create, host, and share alternate image text for specific communities.
- Website developed in Django and hosted using AWS Elastic Beanstalk with Amazon RDS for a scalable database.
- Wrote scripts and apps in React and Python to crawl websites and fetch APIs for research dataset creation.

Inclusive Privacy

Remote

Research Intern

Summer 2022, 2023

- Co-authored a paper on the design and creation of a dataset containing private object photos from blind users.
- Developed apps in Next.js and Flutter to take photos and blur private objects using a computer vision model.
- Worked with professors and PhD students at UIUC, UW, CU, & Georgia Tech to organize research projects and paper submissions.
- Conducted data collection through scheduling interviews and qualitatively analyzed survey data for paper writing.

PathFinder

Remote

Software Developer

Aug 2021 - Present

- Developer at startup focused on improving undergraduate career searching via infographics and interviews from industry experts.
- Built responsive components using React and Bootstrap/Less CSS, examples: spotlight posts, web filters, and search functionality.
- Information hosted in MongoDB database for infographics and interviews connected to frontend via data API endpoints.
- Developed frontend tests using Puppeteer/Jest, Git for code reviews/branch management, and Trello for SCRUM/agile sprint cycles.

LMYA Sports Volleyball

Moraga, CA

App Developer

Apr 2019 - Mar 2021

- Co-developed app for Android and iOS from scratch in the NativeScript framework to replace paper-based timecards.
- Developed a payment system using a mobile device camera to scan QR codes that auto-generated timesheets in Google Forms.
- Created scheduling system using custom Rest API via Google AppScript to plan sports practices between coaches and trainees.
- Used Google Firebase for authentication and Firebase Cloud Functions for programmatic app notifications.
- Deployed betas/updates to TestFlight and Google Play Console to conduct user studies and implement improvements.

PROJECTS

YouTube Comment Downloader: github.com/ixukw/ytcomments

- Tool hosted on GitHub Pages written in React for mass-downloading YouTube comments from playlists using the Google Data API.
- Sends requests until the daily API limit with a return token to continue the next day, and constructs an output CSV file for download.

NoSight: github.com/edwardneo/nosight-web

- Developed a real-time photo sharing image enhancement platform for the vision impaired at CalHacks 9.0.
- Utilized React Native for multi-device frontend and Google Firebase for REST API and database.
- Deployed image upscaling model using TensorFlow and HuggingFace to Google Cloud.

SocialHub Analytics: github.com/ehwu106/SocialHub

- Sprint-based team project to create a React website to analyze trends and display analytics across multiple social media accounts.
- Utilized Google Data APIs and Meta APIs for authentication and data collection and DynamoDB for database.