Inan Xu

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TECHNICAL SKILLS

- Javascript, React, SQL, Git, Python, Tensorflow, Computer Vision, AI/ML, Java, C/C++

EXPERIENCE

MISFIT Labs **Remote**
Research Assistant *Mar 2023 - Present*

- Conducted field research using cameras to recreate a simulation for computer vision algorithms to analyze crowd behavior.
- Developed a community-focused website to create, host, and share alternate image text for those with disabilities.
- Utilized Django for frontend components and AWS Elastic Beanstalk for backend and scalable databases via Amazon RDS.
- Wrote apps in React and Python to create research datasets, using data from crawling websites and various APIs.

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 using React Native and Flutter to take photos and blur private objects using a computer vision model.
- Worked with a team of professors and PhD students at UIUC, UW, to organize data collection and analysis.
- Conducted data collection through scheduling interviews and qualitatively analyzed survey data for paper writing.

PathFinder **Remote**
Software Developer *Aug 2021 - Present*

- Member of a small startup focused on improving undergraduate job and career searching via infographics and testimonials.
- Built responsive components using React and Bootstrap/Less and wrote endpoints for backend communication.
- SCRUM/Agile sprint development using Trello and Git to conduct code reviews/branch management.
- Developed frontend tests using Puppeteer/Jest.

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.
- Utilized device camera, Google Forms, and Google Apps Script for QR codes to create a payment system.
- Created Rest API using Google Sheets API for scheduling system to plan sports practices between app and database.
- Used Google Firebase for authentication and Firebase Cloud Functions for programmatic app notifications.
- Deployed betas and updates using TestFlight and Google Play Console and collected user feedback for improvements.

PROJECTS

Self-Learning Classification

- Participated in a UCSC Kaggle competition for an image classification task involving self-learning achieving 85% accuracy.
- Wrote a model for semi-supervised learning involving pseudo-labeling and transfer learning in Tensorflow.
- Improved accuracy using Vision Transformers along with preprocessing and hyperparameter tuning.

NoSight

- 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.

Social Media Analytics Tool

- Coordinated with a team to build a React website to analyze trends and display analytics across multiple social media accounts.
- Extensively utilized Google and Meta APIs for authentication and data collection and DynamoDB for user database.

EDUCATION

University of California, Santa Cruz, Computer Science, B.S., 2023. GPA: 3.89, Dean's List.
Competitive Programming Club - *ICPC Pacific Northwest Top 10*
Teaching Assistant for C Programming, Data Structures & Algorithms, Machine Learning classes. *2022-2023.*
Relevant Coursework: Software Engineering & SCRUM, Applied Machine Learning, Computer Vision, Algorithms & Data Structures, Data Visualization, Computer Architecture, Python/C/C++