ANTHONY ZHAI

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EXPERIENCE

EsperCare

Software Engineer June 2023 - Present

- Developed mobile app to allow users to interact with 3-D avatar for gamifying physical therapy.
- Developed project delivery accelerator app using Atlassian Forge and React, served on the Jira marketplace to thousands of companies.

Princeton University

Machine Learning Research Intern

Jun 2022 - Aug 2022

- Developed novel machine learning models to model power magnetic core loss with PyTorch, Tensorflow, Pandas, and Numpy.
- One of less than 40 participants selected nationwide to participate in the Laboratory Learning Program.

MontyHacks

Executive Organizer

Jan 2022 - April 2023

- Organized MontyHacks V, school's first ever hybrid hackathon with over 180 participants from over 60 schools across the world.
- Managed a team of 20+ people to reach out to sponsors, organize event logistics, and market the event through social media and our website.

The Writing Institute of Princeton

Software Developer Intern

Jun 2021 - Aug 2021

• Developed code for automating the collection of books and their metadata, using Python and Selenium.

EDUCATION

Princeton University

Princeton, NJ

B.S.E in Computer Science

Activities: Princeton Entrepreneurship Club, Princeton Association for Computing Machinery

SKILLS

Programming Languages: Python, Java, C++, Javascript, Dart, HTML / CSS

Libraries: Tensorflow, PyTorch, Flutter, React, Node, Flask, Numpy, Pandas, Django, OpenCV, Mediapipe Technologies: Git, Bash, Github, Firebase, Figma, Docker, NPM, UNIX, LaTeX

Projects

CGBNet: A Deep Learning Framework for Compost Classification Python, Tensorflow, Keras, Computer Vision, Deep Learning, Transfer Learning

CGBNet is a framework for classifying compost to help automate composting. Co-first authored research article for CGBNet that was published in IEEE Access (3.48 impact factor and 30% acceptance rate).

Visionary Python, Django, Django-Rest-Framework, Flutter, Dart, Tensorflow, Keras, NLP Visionary is an app that helps the visually impaired interact with the world through text OCR, object detection, and image captioning through Natural Language Processing and computer vision.

ConnectAnon Flutter, Firebase, Figma, Cloud Firestore

Connect Anonymous is a project to help teenagers connect with others from the same high school through anonymous chatting and texting. Developed the mobile app using Flutter and Firebase.

VirtualMouse Python, OpenCV, Mediapipe, PyAutoGUI

VirtualMouse is a program that uses computer vision and machine learning to process real-time hand movements for controlling a computer GUI.

AWARDS

NASA Earth System Science Award

Nokia Bell Labs North Jersey Regional Science Fair

1 of 2 recipients for NASA Earth System Science Award, awarded to projects which incorporate studies of different spheres of the Earth system for sustainable development. Sponsored by NASA.

Mar 2022

Overall 2nd Place HealthHacks (PennApps x Wharton Undergraduate Healthcare Club) Created Retro, an application that provides easy access to critical information for first responders in emergency situations and decentralizes the storage of medical records.

Mar 2022

Tests of Engineering Aptitude, Mathematics, and Science Technology Student Association Placed 1st in the state and 1st nationally in the TEAMS competition (based on cumulative score). Apr 2020