

ANTHONY ZHAI

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EDUCATION

Montgomery High School
GPA: 100.29

Skillman, NJ
Sep 2019 - Jun 2023

Activities: Computer Science Club (Board Member), Science Olympiad (Captain), Blue Moon Music
Tutoring, TEAMS (Tests of Engineering Aptitude, Mathematics, and Science), Chamber Orchestra

EXPERIENCE

Princeton University

Princeton, NJ

Machine Learning Research Intern

Jun 2022 - Aug 2022

- Used deep learning to model power magnetic core loss with PyTorch, Tensorflow, Pandas, and Numpy as one of less than 40 participants selected in the Laboratory Learning Program.

The Writing Institute of Princeton

Princeton, NJ

Software Developer Intern

Jun 2021 - Aug 2021

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

Montgomery Computer Science Club

Board Member, Executive Organizer

Jul 2021 - Present

- Mentored students in weekly workshops and hosted national competitions. Organized school's first ever hybrid hackathon, MontyHacks, with over 180 participants from over 60 schools across the world.

SKILLS

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

RELEVANT COURSEWORK

Neural Networks and Deep Learning, Structuring Machine Learning Projects, Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization

DeepLearning.AI (with credentials)

Machine Learning

Stanford University (Coursera)

Single-Variable Calculus, Multivariable Calculus, Linear Algebra

MIT OpenCourseWare

AP Physics C, AP Chemistry, AP Biology, AP Calculus BC

Montgomery High School

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, one of the most important steps in automating composting. Co-first authored research article for CGBNet that was published in IEEE Access, an IEEE journal with a 3.48 impact factor and 30% acceptance rate.

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.

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.

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 industry-changing application that provides valuable information to first responders in the case of emergency 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