

ANTHONY ZHAI

Skillman, NJ · anthonyznj@gmail.com · (609) 955-1483 ·
https://www.linkedin.com/in/anthony-zhai-275182210/

EDUCATION

Montgomery High School

GPA: 99.73

Skillman, NJ

Sep 2019 - Jun 2023

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

EXPERIENCE

The Writing Institute of Princeton

Software Developer Intern

Princeton, NJ

Aug 2021 - Aug 2021

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

Tutor Trac

Class Director, Tutor

Jul 2021 - Present

- Responsible for organizing a team of tutors, planning lessons, and instructing middle-school students for math, science, and language curricula. Helped raise \$4000+ towards COVID relief.

SKILLS

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

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 Chemistry, AP Biology, AP Calculus BC, Honors Physics

Montgomery High School

PROJECTS

CGBNet: A Deep Learning Framework for Compost Classification

Python, Tensorflow, Keras, Computer Vision, Deep Learning, Transfer Learning

CGBNet is the first Deep Neural Net that classifies between different types of compost. It uses transfer learning and a novel dataset with 20 different types of objects to classify green and brown compost with an accuracy of 90%. Further work on CGBNet will bring it into a pipeline to automate composting with robots.

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

Best High School Visualization

Vizathon 2021

Awarded best high school award for the Harvard Coronavirus Visualization Team's Vizathon 2021. Mapped global trends in mental health.

Aug 2021

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