Wesley Hu

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Education

Georgia Institute of Technology, *B.S. in Computer Science*, Minor in Robotics — Aug 2023 – Present

- **Status:** Junior
- **GPA:** 3.93/4.0
- **Relevant Coursework:** Data Structures, Algorithms, Computer Organization, Objects and Design, Linear Algebra, Databases, Perception, Intro to Artificial Intelligence, Statistics

Experience

Incoming Software Engineering Intern, MITRE – McLean, VA — May 2025 - Aug 2025

CS2340 Objects and Design UTA, Georgia Tech – Atlanta, VA — Jan 2025 - Present

- Since Spring 2025 I have been an Undergraduate TA for CS2340 under Professor Pedro Guillermo Feijoo-Garcia.
- As the UTA of CS2340, I help students learn how to work in team environments using Agile methodologies.

Machine Learning Specialist, thnkrAI – Remote — Sep 2023 - Sep 2024

- Created Web Scrapers with NodeJS to collect data from large online retailers such as Amazon.
- Trained custom-designed transformer models on collected data for price prediction.

Software Engineer, Experimental Flights VIP – Georgia Tech — Jan 2024 - May 2024

- Worked in the Inventory Management sub-team researching the usage of drones for inventory management.
- Wrote Python scripts that connect to Tello drones allowing for manual control while streaming a video feed through UDP sockets, implements automatic barcode and QR code scanners, and basic flight paths.

Publications

Transfer Learning of Histology Slides Improved CNN Performance on Lung Cancer by Pretraining on Colon Cancer — Mar 2022

10.47611/harp.136

Projects

Agiler, 2024 AI ATL Hackathon — agiler-aiatl.vercel.app devpost.com/software/projo

- Built a project management tool that uses LLMs to analyze meeting notes/recordings to automatically update and create user stories and tasks in the backlog whenever necessary. Our tool enforces good project management practices and cuts down on manual busy-work.
- We used React, FastAPI, Python, Gemini API, Claude API, Docker, and GCR to build and deploy in two days.

Colorspace Change of Basis

- Used linear algebra concepts in NumPy to change the RGB basis of an image and uses least squares solution when less than three colors form the basis.
- Allowed for unique image filters and bring out previously unnoticeable details down to the pixel level.

Automated Real-Time Stock-Market Analyzer

- Uses Python, NodeJS, JSON, yfinance's API, and webscraping to analyze historical and real-time market data.
- Originally developed in 2021, a recent 2024 system redesign automated scheduling, introduced automatic alert mailing, and implemented a redesigned pattern recognition algorithm.
- Enabled a net portfolio gain of **+24%** from January to April 2025 despite a period of poor global market performance.

Technologies

Languages: Python, Java, NodeJS, ReactJS, Typescript, HTML, CSS, Tailwind CSS, SQL, C, C++, Assembly

AI/ML: CNN, LLM, OpenCV, TensorFlow, PyTorch, SkLearn, Numpy, Pandas, CUDA, Gemini, Claude

IDE: Visual Studio Code, PyCharm, IntelliJ, Jupyter Notebook

Software: Docker, WSL/Linux, MySQL, SQLite, Postgre SQL, MongoDB, FastAPI, Figma

Cloud CI/CD Platform: AWS, Cloudflare, Firebase, Supabase, GCP, GCR, GitHub

Hardware: Breadboard, Arduino, Raspberry Pi, Programmable Drones, Computer Components, CAD