

# Wesley Hu

[wesleyjhu14@gmail.com](mailto:wesleyjhu14@gmail.com) | [703 640 4731](tel:7036404731) | [wessite.pages.dev](https://wessite.pages.dev) | [linkedin.com/in/WesleyJHu](https://linkedin.com/in/WesleyJHu) | [github.com/weswes2EPYC](https://github.com/weswes2EPYC) | US Citizen

## 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** Mar 2022

**Pretraining on Colon Cancer**

10.47611/harp.136

## Projects

**Agiler, 2024 AI ATL Hackathon** [agiler-aiatl.vercel.app](https://agiler-aiatl.vercel.app) [devpost.com/software/projo](https://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.

**CipherAI** [cipherai.dev](https://cipherai.dev)

- Used Javascript (ReactJS) and Typescript to create a technical interview preparation tool through Buildspace.
- The AI chat-bot acts as an interviewer who asks follow-up questions, analyzes user performance, and drops hints.

### 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.

## 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