

# Wesley Hu

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[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:** 3.91/4.0
- **Relevant Coursework:** Data Structures, Algorithms, Computer Organization, Objects and Design, Linear Algebra, Databases

## Experience

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

- Created web scrapers with NodeJS to gather data from large online retailers the likes of 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 a Python scripts that connects 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.

**Administrative Intern**, Interstate Moving | Relocation | Logistics – Springfield, VA May 2023 - Aug 2023

- Key member in the hiring and firing process and used Java and Python to automate company tasks and projects, saving weeks' worth of work in the department.

## Publications

**Transfer Learning of Histology Slides Improved CNN Performance on Lung Cancer by Pretraining on Colon Cancer** Mar 2022  
10.47611/harp.136

## Projects

**CipherAI** [cipherai.dev](http://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, JavaScript(NodeJS, ReactJS), Typescript, HTML, CSS, SQL, C++, Assembly

**AI/ML:** CNN, LLM, Transfer Learning, OpenCV, TensorFlow, PyTorch, SkLearn, Numpy, Pandas, CUDA

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

**Software:** Docker Compose, WSL/Linux, MySQL, MongoDB, Autodesk Inventor, Autodesk Fusion 360

**Cloud CI/CD Platform:** AWS, Cloudflare, Firebase, GitHub

**Hardware:** Breadboard, Arduino, Raspberry Pi, Programmable Drones, Computer Components, Overclocking