Wesley Hu

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github.com/weswes2EPYC | US Citizen

Education

Georgia Institute of Technology, BS in Computer Science, Junior — Aug 2023 – Present

- GPA: 3.91/4.0
- **Coursework:** Data Structures, Algorithms, Computer Organization and Programming, Objects and Design, Linear Algebra With Abstract Vector Spaces, 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

- 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