Wesley Hu

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github.com/weswes2EPYC | US Citizen

Education

Georgia Institute of Technology, BS in Computer Science, Sophomore   Aug 2023 – Present
- GPA: 3.88/4.0
- **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 - Present
- Created JavaScript web scrapers to gather data from large online retailers the likes of Amazon.
- Created custom trained 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 using drones to autonomously track inventory in warehouses.
- Created constraints and features drone should have to effectively track inventory while doubling as a mobile surveillance system.
- Created an automatic bar code and QR code scanner for DJI Tello drones and basic flight paths.
- Wrote a script that connects to Tello drones allowing for manual control while streaming a video feed.

Administrative Intern, Interstate Moving | Relocation | Logistics – Springfield, VA   May 2023 - Aug 2023
- Key member in the hiring and firing process and worked with VDOT and US DOT to enforce safety regulations.
- I used Python and Java to automate company tasks and projects allowing me to complete projects and tasks weeks in advance.

Publications

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

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10.47611/harp.136

Projects

CipherAI   cipherai.dev
- Used Javascript and Typescript to create a technical interview preparation tool through Buildspace.
- Built-in chat-bot acts as an interviewer who asks follow-up questions, analyzes user performance, and drop hints.

Colorspace Change of Basis
- Used linear algebra concepts 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.

Technologies

Languages: Python, Java, JavaScript(NodeJS, ReactJS), Typescript, HTML, CSS, SQL, MongoDB, C++, Assembly
Machine Learning: CNN, Transfer Learning, OpenCV, TensorFlow, PyTorch, SkLearn, Numpy, Pandas, CUDA
IDE and CI/CD: Visual Studio Code, PyCharm, IntelliJ, Jupyter Notebook, GitHub
Software: MySQL, AWS, Docker Compose, Autodesk Inventor, Autodesk Fusion 360
Hardware: Breadboard, Arduino, Raspberry Pi, Programmable Drones, Computer Components, Overclocking