Yusuf Wadi

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Education

University of Texas at Dallas — Richardson, TX
Bachelor's in Computer Science — Aug '20 – Dec '23

COURSES:
- Unix, Linear Algebra, Adv. Data Structure and Algorithms, Discrete Math II, Computer Architecture, OS, Digital Logic

Projects

Calypso — Aug '22
Vue, Nuxt, Nginx, TS, Python
- Designed and built from ideation to completion a therapy chatbot, with 200,000 lines of webscraped transcript data from a custom-built algorithm.
- This project was prototyped with Python then built with Nuxt and placed on a Linode server for open access.

IDAW — Sept '22
Python, Neuralintents, GoogleSpeechAPI, OpenAI
- Programmed a virtual assistant with a custom finetuned GPT model to parse user intentionsd from their speech.
- The program has many functions, including opening games from their Steam library.

internshipAutoApply — Oct '22
Selenium, Python, BeautifulSoup
- Developed an efficient automation algorithm to speed application process by as much 6x as compared to traditional methods

Freqtrade AutoTrader — Jan '23
Nginx, Linux, Docker, Python
- Built, customized, and deployed an algorithmic trading bot to automatically place orders on a 24/7 basis (docker/nginx/linode), with custom strategies and thorough backtesting (python).

Optiver RTG — March '23
Python, C++, Hyperopt, Spark
- Devised low latency trading algorithms to maximize profit while hedging risk using financial time series data. Coordinated efforts in a group of 3
- Utilized Hyperopt to finetune parameters with a custom algorithm, and parallelized trials using Apache Spark, netting a 3x speedup.

IMC Prosperity — April '23
Python, Hyperopt, Spark
- Leveraged Python skills to build adaptive algorithms as well as custom Hyperopt functions to place in the top 3% of participants. Coordinated efforts in a group of 3

Experience

Monoware Studios — May '22 - Aug
Full Stack Intern
- Learned the web design process from front to back, using vanilla Vue and Nuxt. Styling was done with both CSS and TailwindCSS.
- Developed the prototype front end for a new initiative in the company

Research

Neural Radiance Fields — ACM UTD, Jan '23 - May
Computer Vison, Research, Neural Networks
- Collaborated with a team of researchers as part of the ACM group at UTD to design and implement a NeRF-based pipeline for the construction of a VR environment that allows users to explore and interact with virtual space in real-time.
- Scanned and processed 6 scenes with 3 data capture methods and built custom algorithms to parse and evaluate relevant data metrics.

Skills

Languages	Python, C++, C#, JAVA, JS, TS, Verilog, Assembly, HTML, Pug, Bash, VBScript
Development	Git, Docker, VS Code, Visual Studio, Eclipse, Bash, Unity3D, Node.Js, JUnit, Vue, Nuxt, React, pyscript, Conda
Machine Learning	pandas, NumPy, Matplotlib, keras, neuralintents, openai, tensorflow, nltk, scikit, Spark, plotly
Github	https://github.com/yusuf-wadi