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Projects Calypso Projects Designed and built from ideation to completion a therapy chatbot, with 200,000 lines of webscraped transcript data from a custom-built algorithm. Disprete was prototyped with Python then built with Nuxt and placed on a Linode server for open access. Developed an efficient automation algorithm to speed application process by as much бx as compared to traditional methods Python, C++, Hyperopt, Spark IMC Prosperity Python, Hyperopt, Spark Monoware Studios Full Stack Intern Pownard Networks Possigned and built from ideation to completion a therapy chatbot, with 200,000 lines of webscraped transcript data from a custom-built algorithm. Possigned and built from ideation to completion a therapy chatbot, with 200,000 lines of webscraped transcript data from a custom-built algorithm. Programmed a virtual assistant with a custom finetuned GPT model to parse user intentions of from their speech. Developed an efficient automation algorithm to speed application process by as much бx as compared to traditional methods Prequirade AutoTrader Nginx, Linux, Docker, Python Optiver RTG Python, C++, Hyperopt, Spark Utilized Hyperopt to finetune parameters with a custom algorithm, and parallelized trials using Apache Spark, netting a 3x speedup. 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 Full Stack Intern Pull Stack Intern Pull Stack Intern Programmed a virtual sasistant with a custom algorithm as a well as custom strategies and thorough backtesting (python). Poevised low latency trading algorithms to maximize profit while hedging risk using financial time series data. Coordinated efforts in a group of 3 Experience Monoware Studios Full Stack Intern Programmed a virtual saistant with a custom algorithms as well as custom Hyperopt functions to place in the top 3% of participants. Coordinated efforts in a group of 3 Poeveloped the pro	Education			
Projects	•	 Unix, Linear Algebra, Adv. Data Structure and Algorithms, Aug '20 – Dec '2		
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.		Discrete Math II, Computer Architecture, OS, Digital Logic		
Vue, Naxt, Nginx with 200,000 lines of webseraped transcript data from a custom-built algorithm. TDAW This project was prototyped with Python then built with Nuxt and placed on a Linode server for open access. IDAW * Programmed a virtual assistant with a custom finetuned GPT model to parse user intentions of from their speech. GoogleSpeechAPI OpenAI * Developed an efficient automation algorithm to speed application process by as much 6x as compared to traditional methods Oct Selenium, Python, BeautifulSoup Freqtrade AutoTrader Nginx, Limux, Docker, Python * Built, customized, and deployed an algorithm to speed application process by as much 6x as compared to traditional methods * Developed an efficient automation algorithm to speed application process by as much 6x as compared to traditional methods * Developed an efficient automation algorithm to speed application process by as much 6x as compared to traditional methods * Developed an efficient automation algorithm to speed application process by as much 6x as compared to traditional methods * Developed an efficient automation algorithm to speed application process by as much 6x as compared to traditional methods * Developed an efficient automation algorithm to speed application process by as much 6x as compared to traditional methods * Developed the radius algorithm to speed application process to traditional methods * Developed the national methods * Developed the national methods * Developed the national methods * April Level Application process from from to maximize profit while hedging isk using financial time series data. C	Projects			
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Nginx, Linux, Docker, Python Nginx, Linux, Docker, Python automatically place orders on a 24/7 basis (docker/nginx/linode), with custom strategies and thorough backtesting (python). 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 Python, Hyperopt, Spark Experience Monoware Studios 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 Computer Vision, 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.				
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Computer Vison, Research, Neural Networks 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.	Research			
and built custom algorithms to parse and evaluate relevant data metrics.	Computer Vison, Research,	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		
Skills	Skills			
Languages Python, C++, C#, JAVA, JS, TS, Verilog, Assembly, HTML, Pug, Bash, VBScript	Languages	Python, C++, C#, JAVA, JS, TS, Verilog, Assembly, HTML, Pug, Bash, VBScript		
React, pyscript, Conda	•			
Machine Learning pandas, NumPy, Matplotlib, keras, neuralintents, openai, tensorflow, nltk, scikit, Spark, plotly	Machine Learning	pandas, NumPy, Matplotlib, keras, neuralintents, openai, tensorflow, nltk, scikit, Spark, plotly		
	Github	https://github.com/yusuf-wa		