JOSEPH VITA

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PROJECTS

Autovester

- Learning data science techniques and machine learning fundamentals to algorithmically trade stocks, cryptocurrencies and understand movement patterns of the options market

- Collecting sentiment and quantitive data by the second from Robinhood's API and storing it on a self hosted database server

- Created a terminal/API interface for robinhood to track live price data for symbols, implement a take profit/stop loss trading feature and make trades quicker via the command line

- Working on a database schema of technical indicators to track from a stock's live and historical price that would allow an algorithm to detect patterns that indicate a coming sell off or buying spree

EssayAway

- Working on a self-hosted SaaS web app where a user puts in an essay topic and a fine tuned GPT-3 instance creates a guide for the topic and begins writing paragraphs based off the guide.

- Treating my in-house server as a cloud hypervisor to incorporate deployment, vertical and horizontal scaling, data redundancy, containerization and other cloud features to learn how the cloud works under the hood and cut costs

- Using Node and express with MongoDB as a backend, and HTML/CSS/JS and SASS as a frontend.

snip2clip

- Used Visual Studio 2019 with C# to make my own version of the Windows snipping tool

- Used the Tesseract API to run OCR on the snipped images

- Created and currently maintaining a tool that I use on a daily basis and builds upon the lackluster feature set of Microsoft's current snipping tool

TECHNICAL SKILLS

- Python, Pandas, Node.js, Express, Jest, Jquery & AJAX, Flask, HTML5, CSS, Java, C#, C, X86 Assembly

- Git and Github, Microsoft Azure, Azure Devops, Microsoft Windows

- Ubuntu, Bash, Proxmox, MongoDB, MySQL, Redis, Docker, Docker-Compose, Virtualization and LXC containers

EDUCATION

Computing Security BS - 3.29 GPA

Rochester Institute of Technology

📅 August 2019 – May 2023

Alumni

RIT's Computer Science House

📅 August 2019 - Current

EXPERIENCE

Backend Software Engineer

Vuzix

📅 Jan. 2022 - Current   📍 Henrietta, NY

- Configured a scalable and cost-effective Azure cloud architecture for a cross platform real time video communication application that links web and proprietary IoT devices

- Designed and developed a secure Node.js API with CI/CD, administration, and Unit testing for a small scrum team to use on both web and android platforms

QA/Cloud Automation Developer

LenelS2

📅 Jan. 2021 - Aug. 2021   📍 Pittsford, NY

- Wrote scripts to automate the testing of REST Authentication and a Node/Express/Azure backend on a fast pased AGILE team developing cloud access control software.

- Hardened the security of a node/C side project by integrating TLS and an authentication scheme using a proprietary authentication server to a scenario simulator.

RELEVANT COURSEWORK

- Computer Science II

- Programming for Information Security

- Systems Administration I

- Routing & Switching I

- Intro to Database Systems

- Reverse Engineering Fundamentals

- Probability & Statistics I

- Linear Algebra

- Calculus II