Aavar Khatiwoda

Contact: 703 395 1540, aavar@vt.edu
Links: aavarkhatiwoda.com, github.com/aavarkhatiwoda, linkedin.com/in/aavar
Programming Languages: Python, JavaScript, Java, C, Assembly
Frameworks: ReactJS
Tools: bash, gdb, JSX, Sass, Jenkins, OpenSearch [Suite], Groovy / Jenkinsfile scripting, Docker, Terminal, Linux
US Government: Secret Clearance

EDUCATION

Virginia Tech *Blacksburg, VA*
Bachelor of Science in Computer Science *Expected May 2024*
Minor in Mathematics
GPA: 3.70, Dean's List with Distinction

PROFESSIONAL HISTORY

Northrop Grumman, *Software Engineer Intern, Secret Clearance* *Baltimore, MD*
Python, Jenkins, Groovy / Jenkinsfile, Docker, OpenSearch [Suite], Grafana *Jun 2023 – Aug 2023*
- Identified collection requirements and developed Python scripts to efficiently retrieve Jenkins pipeline data toward end goal of monitoring project health and anticipating build failures.
- Optimized collection scripts to retrieve data more efficiently by +30% rate increases of previous iterations.
- Designed Jenkinsfile sequence diagram to document anticipated flow of data collection and transfer to OpenSearch, creating detailed documentation of script tasks and API calls.
- Utilized Groovy / Jenkinsfile scripts within Docker to automate data collection and transfer to OpenSearch.
- Spearheaded planning of weekly tasks of team of 4 through serving as team's scrum master.

TECHNICAL PROJECTS

Personal SWE Portfolio Website [aavarkhatiwoda.com], *React, JSX, Sass* *Continuous Development*
- Self-taught React [3+ years] and developed software engineer portfolio website to highlight introduction, technical skills, work history, and projects.
- Utilized Sass variables and reusable components toward creating a readable and scalable environment.
- Emphasized high-quality user interface and user experience through interactive components and visual clarity.
- Designed for mobile to 4k-resolution displays.

Very Articulated Recreational Service [V.A.R.S.], *Python, Google Speech Recognition, BS4* *In Progress*
- Utilized Google Speech Recognition Python library to develop J.A.R.V.I.S.-like voice assistant to return desired information or go to URLs through web scraping capabilities.

Apple Music Terminal Music Finder, *Python, Apple Music [Mac]* *Complete*
- Created terminal program to search downloaded artists libraries to find potential song matches through string matching and play the intended song after user selection.

Recursive Sudoku Solver & Visualizer, *Python, PyGame* *Complete*
- Developed backtracking sudoku application with solving process shown through GUI.