

# 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

**US Government:** Secret Clearance

## EDUCATION

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### Virginia Tech

*Bachelor of Science in Computer Science*

*Minor in Mathematics*

GPA: 3.70, Dean's List with Distinction

*Blacksburg, VA*

*Expected May 2024*

## PROFESSIONAL HISTORY

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### Northrop Grumman, Software Engineer Intern, Secret Clearance

*Baltimore, MD*

*Python, Jenkins, Groovy / Jenkinsfile, Docker, OpenSearch [Suite]*

*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.
- Aided team in expanding data visualization capabilities through filters with OpenSearch Dashboards.
- Spearheaded planning of weekly tasks of team of 4 through serving as team's scrum master.

## TECHNICAL PROJECTS

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### 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.

### Binary Bomb Lab [School Assignment], C, GDB, Assembly

*Complete*

- Diffused bomb through employing objdump to extract executable contents as Assembly code and tracking program execution and memory contents to discover solutions to each of the 6 phases.

### 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*