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Aiden Aquino

Education

James Madison University (2023 - Current)

B.S. in Computer Science, Minor in Mathematics

- GPA: **3.84** | President's List (Fall 2023, Spring 2025), Dean's List (Spring 2024, Fall 2024)
- **Relevant Computer Science Coursework:** Algorithms & Data Structures, Software Engineering, Computer Systems I & II, Discrete Structures I & II
- **Relevant Mathematics Coursework:** Probability & Statistics, Linear Algebra, Calculus II

Battlefield High School (2019-2023)

CASIIT (Center for Applied Science, Interactive, And Information Technology) – selective STEM program

Projects

Recipe and Meal Utilities

- Developed a Java desktop application with a comprehensive GUI and persistent data storage for managing recipes, meals, and inventory items to streamline meal planning and tracking.
- Collaborated with a 5-person Agile team over 3 total SCRUM sprints, contributing 330+ peer-reviewed Git commits and implementing features such as recipe step management, automated serving size calculations and inventory tracking.

Mini-ELF Command-Line Tool

- Developed a C-based command-line tool to parse Mini-ELF/Y86 binary files, inspect memory, and disassemble 25+ unique instructions and data sections, enabling detailed program analysis.
- Simulated program execution with optional debug tracing, validating correctness and improving runtime behavior analysis.

Huffman File Compressor

- Implemented a file compression utility using Huffman coding, achieving up to 40% reduction in text file size compared to uncompressed input.
- Applied data structures such as trees and priority queues to manage encoding and decoding processes.

Additional Projects: Course Information Web App (high school, partial), 1-week Game Jam

Experience

Teaching Assistant – CS 149: Introduction to Programming, JMU (Fall 2025 - Present)

- Hold lab hours to assist 20+ students weekly with programming assignments and debugging code.
- Provide one-on-one support and guidance to help students understand core programming concepts through Python and Java.

Front End Worker – Wegmans (July 2021 - Present)

- Delivered customer service across multiple departments, developing strong communication, teamwork, and problem-solving skills in a fast-paced environment.

Skills

Languages:

- Java, C#, Python, C, Assembly

Frameworks / Libraries / Technologies:

- .NET (ASP.NET and WPF), XAML, HTML, CSS

Tools:

- Git/GitHub, Command-line, Eclipse, Visual Studio, VS Code, Agile/SCRUM