

# Aiden Aquino

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## 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

## Work Experience

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

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

### **Front End Worker – Wegmans** (July 2021 - Present)

- Delivered customer service across three departments, enhancing the experience of 150+ customers daily.
- Demonstrated versatility through strong communication, problem-solving, adaptability, and team collaboration.

## Projects

### **Huffman File Compressor**

- Implemented a file compression utility using Huffman coding, building frequency tables and tree-based algorithms for optimized encoding.
- Performed bit-level file I/O and binary data manipulation to compress and decompress text files efficiently.
- Applied data structures such as trees and priority queues to manage encoding and decoding processes.

### **Mini-ELF Command-Line Tool**

- Developed a command-line tool to parse Mini-ELF/Y86 binary files, inspect memory, and disassemble code and data sections.
- Simulated program execution with optional debug tracing to validate functionality and analyze runtime behavior.

### **Recipe and Meal Utilities**

- Developed desktop application with a comprehensive GUI for managing recipes, meals, and inventory.
- Implemented agile workflow with SCRUM sprints and peer-reviewed Git commits.
- Built features for recipe step management, automated calculations, and data storage.

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

## Skills

### **Languages:**

- Java, C#, Python, C, Assembly

### **Frameworks / Libraries / Technologies:**

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

### **Tools:**

- Git/GitHub, Command-line Tools  
Eclipse IDE, Visual Studio, Visual Studio Code