JIMMY WHITLEY

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SUMMARY: Computer Science undergraduate with strong foundations in software engineering, systems programming, and full-stack development. Experienced in Agile team environments, building production-style applications with testing, documentation, and CI-minded workflows.

EDUCATION

Bachelor of Science in Computer Science   **August 2023 - December 2026**

Mississippi State University, Starkville, Mississippi   Cumulative GPA: 3.41/4.0

Dean's List Honoree: Fall 2024, Spring 2025

Relevant Courses: Data Structures & Algorithms, Technical Writing, Systems Programming, Computer Organization, Intro Algorithms, Intro Cybersecurity, Computer Graphics

SKILLS & CERTIFICATIONS

Technical Skills: Python, C, C++, C#, HTML, CSS, JavaScript, SQL

Frameworks & Platforms: .NET, Blazor WebAssembly, Firebase

Tools & Concepts: Git/GitHub, SQLite, Agile/Scrum, OOP, REST APIs, Data Structures, Unit & E2E Testing

PROJECTS

Academic Projects

- Terminal-based E-commerce Platform
- Technologies: Python, SQLite
  - Delivered a terminal-based e-commerce application with Python and SQLite, earning a final grade of 94%
  - Facilitated seamless database integration with dynamic SQL queries and robust error handling
  - Applied Agile development practices in a team environment, contributing to design documentation, and maintaining a clean GitHub commit history
- GameVault - Full-Stack E-Commerce Platform (Group Capstone Project)
- Technologies: C#, .NET, Blazor WebAssembly, Firebase, xUnit, Playwright, Git
  - Collaborated in a team-based Agile project across four 3-week sprints to design and build a full-stack e-commerce platform using GitHub-based workflows, earning a final grade of 96.25%.
  - Authored and maintained a comprehensive Software Requirements Specification (SRS) and system design documentation, translating requirements into implemented features.
  - Implemented role-based workflows (customer, vendor, admin), including vendor approval, listing moderation, and account bans, with integrated authentication and authorization.
  - Developed RESTful APIs and DTO-driven services for product listings, orders, invoices, and audit logs, persisted using Firebase Firestore.
  - Created end-to-end automated tests using xUnit and Playwright to validate core user and administrative workflows.
- FizzBuzz in C
  - Implemented the FizzBuzz challenge using C, incorporating system-level programming techniques, signal handlers, and error handling.
  - Tracked execution time and CPU ticks, demonstrating proficiency in low-level programming, process control, and performance analysis.

Additional Skill-Based Projects

- Portfolio Website - jimmy-whitley.com
  - Designed and developed a personal portfolio website using HTML, CSS, and responsive design principles to showcase projects and professional work.
- Javascript Calculator
  - Built a fully functional, interactive calculator with a dynamic display using JavaScript, HTML, and CSS, demonstrating event handling and DOM manipulation skills.

Student Organizations: National Society of Black Engineers (NSBE), Shackouls Honors College