

JIMMY WHITLEY

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SUMMARY: Computer Science undergraduate with strong foundations in software engineering 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

Organizations: National Society of Black Engineers (Secretary) • Shackouls Honors College

Relevant Courses: Data Structures & Algorithms, Intro Software Engineering, Systems Programming, Computer Organization, Intro Cybersecurity, Operating Systems, Programming Languages

PROJECTS

Academic Projects

- GameVault - Full-Stack E-Commerce Platform (Group Capstone Project) - Final Grade: 96.25%
- Technologies: C#, .NET, Blazor WebAssembly, Firebase, xUnit, Playwright, Git
 - Collaborated on a 4-person Agile team across four 3-week sprints to design and build a full-stack e-commerce platform using GitHub-based workflows.
 - Authored and maintained Software Requirements Specification (SRS) and system design documentation, translating requirements into implemented features.
 - Implemented role-based workflows for customers, vendors, and administrators with integrated authentication and authorization while developing RESTful APIs and DTO-driven services for product listings, orders, invoices, and audit logs, using Firebase Firestore.
 - Created automated tests using xUnit and Playwright to validate core workflows.
- Custom Programming Language Interpreter (Individual Capstone Project)
- Technologies: C++, Parsing Techniques, Lexical Analysis, ASTs
 - Developed a custom interpreter supporting variables, expressions, conditionals, control flow, and comments via tokenization, parsing, and AST construction.
 - Implemented runtime behavior, including floating-point comparison with EPSILON-based truth tolerance.

Additional Skill-Based Projects

- Weather Insight Dashboard
- Technologies: React, JavaScript, APIs, Git
 - Developed a weather analytics application that provides real-time forecasts, weather advisories, and environmental metrics through a responsive React-based interface.
 - Implemented geolocation services, search autocomplete, and external weather APIs to deliver location-based forecasting.
 - Built reusable frontend components and state management workflows to efficiently handle asynchronous API requests, loading states, and error handling.
 - Visualized forecast trends and environmental data, including air quality, pressure, visibility, and dew point metrics, to support data-driven decision-making.

TECHNICAL SKILLS

Languages: C++, C, C#, Python, HTML5, CSS3, JavaScript, SQL

Tools & Frameworks: .NET, Blazor WebAssembly, Firebase, React, Git/GitHub, SQLite, Playwright, xUnit

Concepts: Agile Development, OOP, REST APIs, Data Structures, Unit & E2E Testing, Full-Stack Development