SABRINA AREIAS

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SUMMARY

Computer science-focused graduate with experience developing full-stack web and C++ applications. Strong foundation in object-oriented programming, databases, and application state management, with hands-on experience debugging and tutoring core computer science concepts.

TECHNICAL SKILLS

Languages: C++, Python, JavaScript, SQL, HTML, CSS, PHP
Frameworks / Libraries: React, Express, Bootstrap | **Databases**: SQLite, MySQL | **Tools**: Git, GitHub, Visual Studio
Concepts: Object-Oriented Programming, Full-Stack Development, RESTful APIs, State Management

PROJECTS

Knit Note | React, Bootstrap, Express, SQLite
Full-Stack Web Application

- Built a full-stack fiber-arts project tracking application to log project progress, using React, Express, and SQLite
- Implemented full CRUD functionality backed by a relational database, ensuring reliable data storage
- Designed RESTful API endpoints (GET, POST, PATCH, DELETE) to separate frontend logic from backend data handling
- Enforced data integrity through client-side and server-side validation to prevent invalid submissions

PomoPet | C++
Game Development / Productivity Application

- Built a C++ productivity application combining a Pomodoro timer with long-running virtual pet simulation to encourage sustained focus
- Designed a modular game loop to manage focus sessions, breaks, training selection, and progression over indefinite play sessions
- Implemented object-oriented class hierarchies for pets, locations, inventory, shop, and arena systems, making it easier to extend and maintain gameplay features
- Added file-based persistence to save and load pet stats, inventory, and progression across sessions
- Implemented randomized competition systems using dice-roll mechanics, reward logic, and scaling difficulty as the pet's level increases

EDUCATION

Associate in Science, Computer Information Systems – Dec 2025
Bristol Community College | *Summa Cum Laude*

Front End Web Development Certification – Dec 2018
General Assembly, Boston

EXPERIENCE

Bristol Community College, Remote   Oct 2024 – Present
Computer Science Tutor

- Provide one-on-one and group tutoring in object-oriented programming, data structures, web development, and databases to reinforce core computer science fundamentals
- Debug and review student code in C++, Python, JavaScript, SQL, HTML, CSS, and PHP, helping students identify logic errors and improve problem-solving skills
- Explain complex technical concepts in clear, accessible terms to students with varying technical backgrounds

Aroma Joe's, Raynham MA   Dec 2022 – June 2024
Store Manager

- Led and managed a team of 10+ employees in a fast-paced environment
- Tracked inventory, waste, and usage data to optimize weekly ordering and reduce operational loss