Victor Santana

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EDUCATION

Bachelor of Science in Computer Engineering — September 2023 - December 2027
Brigham Young University - Idaho — Rexburg, Idaho

- Certificate: Machine Learning Fundamentals
- 4.0 GPA
- Scholarship: Brigham Young University-Idaho Grant 2025-2026 (Acknowledgement of Academic Excellence)
- IEEE Society Event Planner Assistant
- Relevant Courses: Programming with Classes (C#), C, C++, Programming with Data Structures (C#), and Fundamentals Digital Systems, Microprocessor Based System Design, Data Science Programming

EXPERIENCE

Faculty Technology Center Lead — January 2025 - Present
Brigham Young University - Idaho — Rexburg, Idaho

- Enhanced 100+ online courses in Learning Management System (LMS) showcasing strong problem-solving skills to ensure high-quality course delivery, improving user experience
- Collaborated in a dynamic team environment, utilizing various 5+ technologies to complete tasks efficiently and adapt to evolving project goals
- Manage a team of 20+ members by assigning tasks, providing one-on-one training sessions resulting in a 100% success rate office appointments

RELEVANT SKILLS

- Hardware & Software Tools: Arduino & IDE, STM32 & CubeIDE, GitHub
- Programming Languages (in order of proficiency): C#, Python, C++, C, Assembly
- Management & Soft: Scheduling, Team Management, Team Training, Spanish Language

PROJECTS

Food Storage Management System — November 2024 - Present
C# | OOP | File Handling | Email Integration | Input Validation — Rexburg, ID

- Built a food storage tracking system to help users organize expiration dates by designing a file-based architecture in C#, resulting in minimized food waste
- Implemented an automated email notification system, ensuring users received timely alerts for 100% of expiring items, leading to increased user engagement
- Developed a robust input validation system with custom error handling and conditional logic to prevent incorrect entries, reducing input errors by 90%
- Optimized data handling by implementing secure file storage and integrating flexible date parsing, improving data retrieval speed and boosting overall system usability

Expense Tracker — January 2025 - Present
C++ | File Handling | STL | Input Validation — Rexburg, ID

- Developed a C++ expense tracking application to supervise and filter personal finances; executed a single-file system for efficient data persistence, reducing file read/write time
- Utilized 3+ STL algorithms to manage dynamic expense operations, enabling scalable and efficient data processing across categories
- Built a menu-driven console UI with comprehensive input validation and error handling using conditional logic and try-catch, enhancing usability and decreasing user input errors by 80%