SOFIA BERNAL

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EDUCATION & HONORS

Florida State University   Tallahassee, FL
Bachelor of Science in Computer Science, Minor in Computational Science Entrepreneurship   **GPA:** 3.6/4.0
Relevant Coursework: Software Engineering | C++ Data Structures | Intro to Unix | Full Stack Development in C#
Organizations: Alpha Phi, ColorStack, Panhellenic Association

WORK EXPERIENCE

Florida State University
Undergraduate Research Assistant   Tallahassee, FL
- Incoming Undergraduate Research Assistant researching the usage of LLMs when   May 2025 - December 2025
  coding applications

My School Tech Hub   Daytona Beach, FL USA
Director of Education   **June 2019 - June 2023**
- Delivered instruction in robotics, coding fundamentals, and web development to K–12 students across multiple summer sessions.
- Created and adapted curriculum using foundational tools like Scratch, HTML, and robotics kits to match students' skill levels and interests.
- Educated over 50 students and supported a more inclusive and engaging tech learning environment.
- As a result, this work expanded access to quality technology education for younger and underrepresented learners and gave them the opportunity to learn the fundamentals of computer science.

LEADERSHIP EXPERIENCE

Alpha Phi, Executive Administrator   **November 2023 - November 2024**
- Served on the Executive Council, helping lead internal operations for a chapter of nearly 300 members.
- Created a C++ program to automate individual participation tracking, reducing manual calculation time by over 1 hour.
- This role was impactful as I developed strong organizational and leadership skills, ensuring the chapter operated smoothly and cohesively while also utilizing my personal skills such as C++ programming to maximize efficiency.

PROJECTS

UCR Visualization Tool | Python, Flask, React, JavaScript, CSS - GitHub   **January 2025 - Present**
- Collaborated with three others on a web-based UCR Crime Data Visualization Tool focused on making Florida crime statistics accessible and interactive for users.
- Utilized languages such as Python for backend processing, React for frontend interactivity, and public datasets like FBI UCR and NIBRS.
- Enabled secure and user-friendly exploration of crime trends across Florida by implementing interactive visuals and Role-Based Access Control, significantly improving accessibility over raw UCR datasets.

Sofia Express | C#, .NET MAUI - GitHub   **January 2025 - Present**
- Leveraged C# and .NET MAUI to develop an application that replicates a backend inventory management system alongside a client-side shopping cart. The app empowers users to build wish lists and seamlessly check out with their selected items.
- Applied the MVVM architectural pattern with data binding and event delegation to ensure clean separation of concerns, maintainable code, and a responsive user interface

A Baking Contest! | Python, Flask, HTML   **November 2024 - December 2025**
- Created a secure web app allowing users to register, log in, and submit baking contest entries based on role permissions.
- Built this using Flask, HTML, and the cryptography library to implement encrypted user data and session-based authentication.

TECHNICAL SKILLS

- **Programming Languages:** C/C++/C#, Python, SQL, R, HTML, CSS, JavaScript
- **Frameworks:** Flask, React, .NET MAUI
- **Tools:** Git, Linux, Visual Studio Code
- **Other:** Microsoft Office applications (Excel, Powerpoint, Word)