Allison Brown

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www.allisonbrown.dev

EDUCATION

Bachelor of Science in Software Engineering
Florida Gulf Coast University | May 2027
- Minor in Marketing, GPA 3.62, President's List 2x, First Generation College Student
- Relevant Courses: Data Structures & Algorithms, Computer Security, Intro to Cloud Computing, Data Mining

Associate in Arts
Florida SouthWestern State College | May 2023
- Honor's Graduate, GPA 3.93

PROJECTS

iMPOSTURE - AI Powered Wellness Coach | September 2025
github.com/abrown33914/iMPOSTURE
- Placed 2nd of 1,400+ in ShellHacks 2025 Google Cloud Challenge for an AI posture/distraction detection app.
- Integrated Google ADK/Cloud APIs into a desktop posture tracking platform with a seamless user experience.
- Built responsive wellness UI featuring real time biometric monitoring and adaptive visual feedback systems.

Neo Eden – Survival Assistant App | April 2025
github.com/abrown33914/neo-eden
- Built a React Native/Expo app for survival planning with Google Maps overlays of water, farmland, and radiation.
- Implemented an image to AI chatbot with Gemini API for plant identification and farming guidance.
- Delivered responsive cross platform UI/UX with React Native, JavaScript, and Figma.

Securing Delivery Drones – 3D Simulation Platform | March 2025
github.com/abrown33914/drone-project-simulations
- Simulated RF jamming attacks in Gazebo + SITL to evaluate communication vulnerabilities in delivery UAVs.
- Programmed Python frequency-hopping defenses and autonomous failsafe responses.
- Assessed system resilience under adversarial conditions, highlighting protective strategies for UAV networks.

EXPERIENCES & INVOLVEMENT

Frontend Developer
BoomBox | Fall 2025 - Present
- Contributing to UI/UX design and interactive app prototyping for a social music discovery platform.
- Developing and refining responsive frontend components and user interfaces to enhance experience.
- Creating digital assets and marketing materials to support ongoing product outreach.

Hackathon Organizer
CSSEC EagleHacks | Spring 2024 - Present
- Directing planning for three EagleHacks events, FGCU's only student run hackathon, engaging 100+ hackers.
- Secured $23K+ in sponsorships and grants from 7 corporate partners including Arthrex, Hertz, and Kingland.
- Oversaw logistics, registration, and judging while expanding impact with workshops and networking.

Vice President
FGCU Computer Science & Software Engineering Club (CSSEC) | January 2024 - Present
- Advanced from Marketing Coordinator to Vice President, leading weekly meetings and officer led workshops.
- Organizing panels and career events with professionals from Microsoft, Hertz, and Arthrex.
- Building a collaborative, growth-focused community through mentorship and projects.

Top 20th Hacker
ShellHacks 2024 (FIU) | Fall 2024
- Ranked Top 20 out of 250+ projects for developing a mobile app that applied AI to improve financial literacy.
- Designed intuitive dashboards and visualizations to deliver personalized budgeting and advising insights.

Member
Society of Women Engineers (SWE) | Fall 2023 - Present
- Engaged in a professional community supporting women in engineering and technology.