

# Allison Brown

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## EDUCATION

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### 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

## EXPERIENCES & INVOLVEMENT

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### Frontend Developer

BoomBox | Fall 2025 - Present

- Developing and refining responsive frontend components and user interfaces to enhance experience.
- Contributing to UI/UX design and interactive app prototyping for a social music discovery platform.

### President

FGCU Computer Science & Software Engineering Club (CSSEC) | Spring 2024 - Present

- Advanced from Marketing Coordinator to President, leading weekly meetings and overseeing club operations.
- Organizing panels and career events with professionals from Microsoft, Hertz, and Arthrex.
- Building a collaborative, growth focused community through mentorship, projects, and technical workshops.

### Hackathon Organizer

CSSEC EagleHacks | Spring 2024 - Present

- Led planning/logistics for EagleHacks, engaging 100+ participants while expanding workshops and networking.
- Secured \$23K+ in sponsorships and grants from seven corporate partners to support event growth and impact.

### Top 20<sup>th</sup> 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.

## PROJECTS

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### Smart Traffic & Pavement Intelligence Backend | November 2025

[github.com/abrown33914/lucian-backend](https://github.com/abrown33914/lucian-backend)

- Built an Azure based backend that ingests live FDOT traffic snapshots, updating live road segment Digital Twins.
- Implemented ML forecasting for pavement conditions/traffic trends, generating predictions consumed by APIs.
- Designed event driven Azure Functions and storage workflows to automate data ingestion, and twin updates.

### iMPOSTURE - AI Powered Wellness Coach | September 2025

[github.com/abrown33914/iMPOSTURE](https://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.
- Created responsive wellness UI featuring real time biometric monitoring and adaptive visual feedback systems.

### Securing Delivery Drones – 3D Simulation Platform | March 2025

[github.com/abrown33914/drone-project-simulations](https://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.

## SKILLS

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Programming: Python, JavaScript, HTML/CSS, C/C++

Systems & DevOps: Linux environments, Python scripting, Bash, CLI tooling

Tools & Design: Azure & AWS, Figma, React & React Native, Expo