

# 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, President's List x2, GPA 3.62
- 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

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### **IMPOSTURE - AI Powered Wellness Coach | September 2025**

[github.com/abrown33914/iMPOSTURE](https://github.com/abrown33914/iMPOSTURE)

- Built an AI powered desktop app using MediaPipe and YOLO to detect posture and distractions in real time.
- Designed a wellness dashboard with live feedback, personalized health scores, and session tracking.
- Integrated Google ADK for data processing and system actions like alerts and screen dimming.
- Enhanced user experience with adaptive reminders and visual feedback to encourage healthy focus habits..

### **Neo Eden – Survival Assistant App | April 2025**

[github.com/abrown33914/neo-eden](https://github.com/abrown33914/neo-eden)

- Built a React Native/Expo app for survival planning with Google Maps overlays of water, farmland, and radiation.
- Developed a local report center using secure local storage to log and share survival coordinates.
- 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.

### **Secure Drone Network Simulations | March 2025**

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

- Developed RF jamming and frequency hopping simulations with ArduPilot SITL, MAVProxy, and Gazebo.
- Implemented Python based countermeasures (dynamic hopping) and drone behavior scripting for mitigation.
- Applied Linux, ROS, MAVLink, and UAV networking to explore wireless attack and defense strategies.
- Validated resilience by testing multiple adversarial scenarios and refining simulation parameters for realism.

### **DNS and Web Server Configuration | December 2024**

[github.com/abrown33914/linux-dns-webserver-config](https://github.com/abrown33914/linux-dns-webserver-config)

- Configured a Linux DNS and web server stack using BIND and Apache to host multiple zones.
- Set up DNS forwarding, caching, and virtual host routing to manage domain resolution and traffic flow.
- Hardened server security via firewall rules, TLS (SSL) configuration, and DNSSEC.
- Automated deployment and configuration using shell scripts or Ansible to ensure reproducibility and scalability.

## EXPERIENCES & LEADERSHIP

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### **Vice President**

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

- Advanced from Marketing Coordinator to Vice President of a 50+ member student organization.
- Led officer run technical workshops and skill-building sessions to support member learning and growth.
- Organized alumni panels and career development events featuring industry professionals and guest speakers.
- Fostered a collaborative, growth-oriented community through mentorship initiatives and hands-on projects.

### **Hackathon Organizer**

*CSSEC EagleHacks | April 2024, February 2025*

- Directed planning for EagleHacks, the only student run hackathon at FGCU, engaging 15+ student teams.
- Secured \$15K+ in sponsorships from companies such as Arthrex, Hertz, and Kingland.
- Oversaw logistics, registration systems, submissions, and judging with industry professionals.
- Expanded impact by hosting technical workshops, a networking event, and company-led challenges.