

Andrew Coggins

Boca Raton, FL | Cogginsx64@gmail.com | 561-827-4166 |
linkedin.com/in/andrew-coggins-89126384 | acoggins2022.github.io

PROFESSIONAL SUMMARY

Recent Computer Science graduate (GPA: 3.75) with a strong foundation in software engineering principles, from data structures to object-oriented programming. Proven ability to design and implement robust applications, demonstrated through leading backend development for an AWS-hosted indoor navigation system. Eager to apply technical skills and a passion for problem-solving to an entry-level role in cybersecurity, data science, or software development.

EDUCATION

Florida Atlantic University
Bachelor of Science in Computer Science
GPA: 3.75/4.0

Boca Raton, FL
August 2025

RELEVANT COURSEWORK

Data Structures & Algorithms, Software Engineering, Database Structures, Cybersecurity.

TECHNICAL SKILLS

- **Languages:** Python, Java, C/C++, SQL, Assembly
- **Backend & Cloud:** AWS (RDS, Lambda, API Gateway, S3, IAM, VPC), Flask, Docker, Git, REST API Development
- **Databases:** PostgreSQL (incl. PostGIS), Database Design, Normalization, Performance Tuning (Indexing), pgAdmin
- **Data Science & ML:** Pandas, NumPy, Data Analysis, Deep Learning Concepts
- **Web & GUI:** HTML, CSS, JavaScript, Java Swing
- **Testing:** Pytest, Postman, Marshmallow
- **Concepts:** Object-Oriented Programming (OOP), Data Structures & Algorithms, OS Concepts (Processes, Threads, Memory Management), Computer Architecture, Offensive & Defensive Security (Red/Blue Team), SDLC, Agile/Scrum Methodology

ACADEMIC PROJECTS

Turn Unknown Spaces into Familiar Places (Engineering Design I & II, Fall 24-Spring 25)

- Spearheaded the backend architecture for an indoor navigation system designed to assist individuals with mobility impairments.
- Engineered and deployed a PostgreSQL database on AWS RDS, designing the schema to efficiently store and retrieve complex LIDAR and camera scan data.
- Developed a Python/Flask REST API with full CRUD (Create, Read, Update, Delete) functionality, enabling the system to manage and serve environmental data to the user-facing application.
- Implemented the core pathfinding algorithm within an AWS Lambda function that calculated optimal navigation routes for users in real-time.

Java Daily Planner Application (Object-Oriented Design & Programming, Spring 2024)

- Developed a feature-rich desktop daily planner application using Java and the Swing GUI toolkit.
- Engineered an event scheduling system with a user-activated conflict detection algorithm to prevent overlapping tasks.
- Implemented user account management and data persistence using Java Serialization, allowing for personalized and saved schedules across sessions.
- Designed multiple calendar views (daily, weekly, and monthly) to provide users with a flexible and intuitive interface for managing their events.

WORK EXPERIENCE

Cinemark Movie Bistro
Server

Boca Raton, FL
May 2022 – Present

- Excelled in a dynamic, high-volume environment, effectively prioritizing competing tasks and managing responsibilities to ensure high levels of customer satisfaction.
- Acted as the primary point of contact for customers, translating diverse requests into precise orders for the kitchen team to ensure accuracy and timely execution.
- Proactively identified and resolved customer issues in real-time, demonstrating strong problem-solving and communication skills to maintain a positive service experience.