Josh Sawyer

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EDUCATION

University of Central Florida — May 2027
Bachelor of Science in Computer Science — GPA: 3.73 — *Orlando, Florida*
Relevant Coursework: Data Structures & Algorithms, Computer Logic & Organization, Systems Software, Object Oriented Programming, Processes for Object Oriented Software Development

EXPERIENCE

Volunteer for the High School Programming Tournament — March 2024
University of Central Florida — *Orlando, FL*
- Assisted in preparing the environment for the students to compete in.
- Oversaw and assisted over **20** teams to ensure fair competition.

Application Engineer Intern — June 2022 – Jan. 2023
Miller Electric Company — *Jacksonville, FL*
- Configured over **30** cameras and switches that were then sent off to on-site locations for use.
- Maintained documentation of configured cameras in an **Excel** spreadsheet.
- Reestablished connection between internal networks after an accidental outage.

PROJECTS

FishNet | *MongoDB, React, AWS, Mailgun* — Feb. 2025 – May 2025
- Initialized and maintained a **MongoDB** collection of user information.
- Utilized **AWS** to store pictures and export their URLs into the database to house photos on the site.
- Engineered a variety of RESTful APIs using the **React** framework to interact with the end users, database, and other services.
- Programmed the email verification aspect of the site using **Mailgun** to give end users more personality.

N.O.V.A AI | *Python* — April 2025
- Setup a **Python** virtual machine for a group member to use the **Flask** library.
- Utilized the **Matplotlib** library to graph the user's attention span to prepare the AI prompt.
- Won **Best Design** at Hack@USF!

The Coral Collection | *SQL, PHP, Linux* — Jan. 2025 – Feb. 2025
- Developed a **LAMP** full-stack web application using **Linux**, **MySQL**, and **PHP** for back-end development.
- Used **GitHub** as version control for the repository and a **DigitalOcean Droplet** to host the site.
- Created **Use Case** and **Entity Relationship** diagrams to visualize the logic of the site.
- Tested and documented each of the APIs using **Postman** and **Swagger.io**, respectively.

CLUBS

Knight Hacks | *Operations Member* — Jan. 2025 – Present
- Critiqued changes made by club officers and brainstormed additional ways to engage with the club.
- Attended several club-hosted workshops and a variety of hackathons.

Hack@UCF | *Operations Member* — Aug. 2024 – Present
- Assisted in planning topics for meetings, workshops, and social events.
- Participated in a variety of cybersecurity-related challenges and events.

TECHNICAL SKILLS

Certifications: CompTIA ITF+, MTA Network Fundamentals, MTA Server Admin Fundamentals
Languages: Java, Python, C, TypeScript/JavaScript, MySQL, PHP, Bash
Developer Tools: Git, GitHub, VS Code, Eclipse, Postman, Swagger.io, Mailgun
Libraries/Frameworks: Matplotlib, Node.js, Next.js, Svelte, React