

ALEX BEAUFORT

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EDUCATION

University of Central Florida – Computer Engineering

AUG 2021 – AUG 2025

- **Relevant Courses:** Data Structures and Algorithms 2 | Circuits 2 | Real Time Control Systems | Embedded Systems | Computer Communication Networks | Electronics 1 | Enterprise Programming | Processes of Object Oriented Software Development | Operating Systems

EXPERIENCE

Web & Mobile Development Intern – U.S. Hunger (Feeding Children Everywhere)

JAN 2025 – MAY 2025

- As a Web Developer Intern, I contributed to developing and maintaining responsive WordPress websites using PHP, JavaScript, and MySQL. Assisted in creating and testing cross-platform mobile applications with Flutter, ensuring seamless integration with web platforms. Collaborated with senior developers to troubleshoot issues, implement solutions, and integrate APIs to enhance functionality and optimize backend performance.

Software Integration Intern – General Electric Vernova

MAY 2024 – AUG 2024

- Configured and deployed remote servers, SCADA software environments, and compilers on virtual machines. Debugged system configurations using XML and log files to ensure optimal performance. Gained hands-on experience in troubleshooting and maintaining grid management software, contributing to the reliability and efficiency of critical energy infrastructure.

Undergraduate Researcher – University of Central Florida

AUG 2023 – DEC 2023

- Worked under a project called VARS where we created an exoskeleton-like device that aids in resistance training and used an Arduino with sensors to track information like rotational speed and send this data to an external application

Server Side Engineer Intern – Jacksonville Electric Authority

MAY 2023 – AUG 2023

- Assembled and troubleshooted servers while gaining hands-on experience with cloud services and databases. Became familiar with various server and network components, enhancing understanding of IT infrastructure. Additionally, I self-taught web development during downtime, broadening my technical skill set.

SKILLS

Skills: HTML & CSS | JavaScript | Embedded Programming | C/C++ | Arduino | React | Bootstrap | VS Code | Python | Python Libraries | Java | Lang Chain | esp32 | JSON | Multisim | LT Spice | PHP | Postman | MIPS Assembly | XML | SQL | Firebase | Debugging | Problem-solving | Critical thinking | Leadership

PROJECTS

Netflix Data Analysis and Investment Recommendation Project

- Developed a Python-based data analysis tool using LangChain and ChatGPT AI to evaluate Netflix's quarterly revenue and membership growth across four global regions: US/Canada, Latin America, Europe/Africa, and Asia. Visualized trends in growth through dynamic graphing and leveraged AI to provide data-driven recommendations on where Netflix should focus its investments in producing content based on regional performance and growth potential.

ESP32-Based Home Security System

- Designed and implemented a home security system using the ESP32 microcontroller and sensors to detect when a door is opened. The system communicates via Wi-Fi to send real-time notifications to a mobile application, alerting users of any entry. Integrated a key fob-based authentication system that disables the security system upon entering the room, ensuring seamless operation and user convenience.

Full Stack Contact Manager Project

- Worked as part of a group to create a full stack contact manager using the LAMP stack where I worked mainly as an API developer using PHP to create endpoints that take information from the front end like contacts or account information and connect that information with SQL database we had running in a remote server

CLUBS/PROGRAMS

**National Society of Black Engineers | Institution of Electrical and Electronic Engineers | EXCEL Program | Knight
Hacks | Knights Powerlifting: Vice President**