

# Richard Phillips

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## EDUCATION

### University of Central Florida

Bachelor of Science in Computer Science

Orlando, FL

Expected Graduation: December 2025

**Relevant Coursework:** Data Structures/Algorithms, Computer Organization, Object-Oriented Programming, Computer Architecture, Machine Learning, Cyber Security, Discrete Mathematics, Augmented Reality

**Organizations:** UCF KnightHacks, NSBE (National Society of Black Engineers), Knights Experimental Rocketry

## WORK EXPERIENCE

### Software Engineer Intern

09/2021 – 07/2022 | Fort Lauderdale, FL

3D HoloGroup Inc

- Collaborated with a frontend team using **Unity** to develop an **Augmented Reality** application, integrating backend functionalities seamlessly.
- Programmed in **Python** to develop a database that stored and recognized over **1,000** spoken words, enabling the AR application to identify and locate objects based on user voice input with **95%** accuracy.
- Enhanced the efficiency of locating objects within the AR space, reducing search times by **40%** and significantly improving user experience.

### Information Technology

06/2019 – 08/2022 | Hollywood, FL

Lakes Food Equipment Repairs

- Managed and maintained employee computers and servers by regularly updating hardware and software, resulting in a **20%** increase in system uptime.
- Diagnosed and resolved **over 100** technical issues, providing IT support to employees and enhancing overall productivity by **15%**.
- Researched, deployed, and led the implementation of **Scalefusion device management** software, securing **10** company phones and improving device control by **30%**.
- Boosted dispatcher efficiency **by 25%** by developing and implementing an **Excel**-based inventory system, effectively managing over **500** parts across warehouse and truck inventories for quick and accurate part location.

## PROJECTS

### Las Patronas | TypeScript, React, Next, Tailwind

- Developed a full-stack web application for Las Patronas, a Mexican restaurant, enabling users to discover and order food seamlessly.
- Developed internal payment systems resulting in a **27%** decrease in expenditures to DoorDash and UberEats.
- Architected customized infrastructure using open-source alternatives to authentication, analytics, and databases, reducing company costs by **70%**

### Project Pegasus | Python, Shell, C++

- Developed and coded an **ESP32 microcontroller** to manage critical rocket operations, including loading propellant, venting, quick disconnect operations, and abort sequences, significantly improving system reliability.
- Wired and coded a controller for an LCD screen, enhancing monitoring and decision-making capabilities by providing operators with crucial information about the rocket's current state.
- Spearheaded the successful launch of the student-led Pegasus rocket, contributing to **zero operational failures** and improving overall **mission success**.

### EzEats | JavaScript, Python, CSS, HTML

- Designed a user-friendly interface using **JavaScript** and **React**, allowing users to specify cuisine and nutritional preferences.
- Developed and integrated backend services with **Python** and **Django**, leveraging **Google Cloud Platform** to ensure scalable and secure data handling.
- Implemented **Google API** for backend functionality, enabling accurate and efficient restaurant recommendations.

## TECHNICAL SKILLS

- **Languages:** JavaScript, TypeScript, Python, C/C++, Java, HTML/CSS
- **Frameworks:** React, Next.js, tRPC, Discord.py, NumPy, Pandas, Django, Google API, Firebase, Astro
- **Tools:** Git, GitHub, VSCode, Postman, Linux, WSL, MongoDB, IntelliJ, REST APIs,