







## **EDUCATION**

University of South Florida

May 2026

**Bachelor of Science in Computer Engineering** 

GPA: 3.84 / 4.0

#### **EXPERIENCE**

### Guidance, Navigation, and Control - System Engineer Intern

Orlando, FL

Lockheed Martin Missiles and Fire Control

May 2025 - August 2025

- Developed multiple high-fidelity IR sensor simulation scenarios using Unreal Engine post processing pipeline and Lockheed proprietary software to develop shader materials recreating the thermal properties of real-world targets
- Contributed to the redesign of a TCP networking protocol, replacing a static, single-item packet system with a
  modular structure that vertically scales to handle multiple video angle data between simulation and visualizer

Student Developer Tampa, FL

USF Advanced Visualization Center

June 2024 – Present

- Researched and developed VR/AR education applications for Quest 3 headsets using Unity
- Assisted in converting PHP files to HTML and CSS, improving document loading performance by 43.7% and
  ensured responsiveness across different devices on our public website
- Presented demonstrations of VR applications in medical space at USF Tanjia College of Pharmacy's grand opening, reaching local news channel Fox 13

#### **LEADERSHIP**

## Vice President | Technical Head

Tampa, FL

USF Game Development Club

July 2024 – May 2025

- Secured an \$862 interim budget for a newly funded club within 3 months then successfully advocated for a 76% increase to \$1,521 for the following year
- Drove record growth by leading a 5-person team to develop and present 22 technical workshops and events, resulting in a 380% increase in attendance and a 2,920% surge in Instagram engagement compared to last year
- Increased 63.3% in student members from previous year (188 -> 307 Undergraduate Members)

#### **PROJECTS**

## Peaceful Valley (Unity, VR/AR) | Unity, Game Development, Level Design, C#, VR/AR

April 2025

- Obtained **3rd place** in a 48-hour Hackathon of **200 participants** hosted at USF in a 3-person team
- Implemented an audio management system, static visuals, and custom animal random walk pathfinding system

## Head Tracker (Robotics) | Python, Arduino, OpenCV

June 2024

- Engineered a head tracking system that shines a laser on the user's forehead with an 86.3% accuracy
- Designed tracking program with Python and OpenCV to detect and track real-time facial movements and communicates the location to the Arduino that will then calculate the pitch and yaw angles for the servos

# Where Did We Go Wrong (Unity) | Unity, Game Development, Level Design, C#

November 2023

- Designed and developed a game in 24 hours, which seized 1st place in a competition against 8 other competitors
- Utilized Unity to create a **custom enemy pathfinding AI**, a turn-based movement system, and gameplay algorithm which the player will barely escape the monster and the slightest of mistakes could be fatal

#### TECHNICAL SKILLS

**Developer Tools**: Unity, Blender, React, Tailwind, Bootstrap, Arduino, Quest 3, Unreal Engine **Programing Languages**: Python, Java, JavaScript, C, C#, C++, HTML, CSS