



## EDUCATION

## University of Central Florida

Orlando, FL

Bachelor of Science in Computer Engineering

Cumulative GPA: 3.6/4.00 Expected Graduation: December 2026

## TECHNICAL SKILLS

**Languages:** JavaScript, Python, C, C++, Java, TypeScript, SQL, HTML/CSS**Frameworks & Tools:** React.js, Node.js, Express.js, MongoDB, Agile (Scrum), Git, Figma, Jira, API Development, VS Code, Three.js, SQL**Machine Learning/AI:** scikit-learn, TensorFlow.js, NLP (regex, smart parsers), Embedded Systems

## WORK EXPERIENCE

## Biznaga Media

Orlando, FL

*Full-Stack Developer Intern*

Jan 2025 – May 2025

- Contributed to the development of interactive 3D mobile advertisements for more than 2 high-profile clients by integrating creative design with solid technical frameworks.
- Utilized **HTML**, **DOM** and **JavaScript** to build responsive, user-friendly front-end interfaces for 3 mobile ad projects.
- Integrated 3-D APIs, such as **Three.js**, to render immersive, real-time animations in 2 key campaigns, improving visual engagement.
- Assisted in implementing **machine learning** techniques on pilot projects to drive interactivity in 3D content, enabling dynamic user experiences.
- Collaborated with designers to prototype a real-time pose-driven experience using webcam input and TensorFlow.js

Ft. Lauderdale, FL

May 2023 – Aug 2023

*Software Engineer Intern*

- Collaborated with a team of 5 to refine over 20 creative proposals, ensuring technical feasibility and adherence to full-stack design best practices using the **MERN** stack.
- Helped manage client analytics for live-streamed advertisements by integrating data pipelines with **SQL** and **Node.js**.
- Contributed in **Agile (Scrum) environments** by seamlessly integrating **React** front-end assets with **Node.js** backend and **SQL** database, delivering scalable web applications for 10+ enterprise clients.
- Debugged and optimized code to ensure seamless performance and compatibility, supporting more than 100 active users.

## PROJECTS

**Gym Buddy** | *MERN Stack, JavaScript, Machine Learning, NLP, React, Express, MongoDB, Natural Language Processing, Full Stack development*

- Built a **full-stack** fitness tracker used by 100+ users, featuring real-time streak tracking, muscle-region analysis, and intelligent recommendations. Using **React** for the front end and the **MERN** stack (**MongoDB**, **Express**, **Node.js**) for the back end
- Designed and deployed a **ML model** to detect undertrained regions and suggest exercises to improve muscle coverage.
- Developed an **NLP** parser to auto-extract reps, weight, and exercise type from free-text logs with 90%+ field accuracy.
- Created dynamic visualizations like calendar heatmaps and pie charts to highlight user performance trends using **JavaScript**.

**License Plate Recognition System** | *MERN stack, React, MongoDB, Express, Node.js, JavaScript, Python, Machine Learning, Scikit-learn*

- Developed a **full-stack** license plate recognition system using **React** for the front end and the **MERN** stack (**MongoDB**, **Express**, **Node.js**) for the back end.
- Tuned image-processing pipeline with **scikit-learn** to optimize detection accuracy and match confidence in real-world conditions.
- Integrated a **python machine learning** algorithm to detect and extract license plates from images with 96% accuracy.
- Matched recognized license plates to user profiles in the **database**, managing over 5,000 records for scalable performance.

**Micro mouse** | *Python, C, Embedded platform integration, Machine Learning*

- Collaborated on a micro mouse project in partnership with IEEE, contributing to the development of an advanced maze-solving **python** algorithm for rapid navigation with **machine learning**.
- Assisted in implementing search strategies and optimizing real-time decision-making processes, improving traversal speed by 25%.
- Integrated the **C** algorithm into an **embedded** micro mouse robot platform, enhancing overall navigation efficiency by 30% in dynamic environments through test-driven development.

**KnightHacks StayDrippy** | *TypeScript, CSS, JavaScript, OpenAI API, HTML, CSS, CRUD Operations*

- Developed a responsive web app using **JavaScript** and **TypeScript** for back-end and HTML and CSS for front end during a hackathon, achieving a 30% boost in player success.
- Integrated **OpenAI's** GPT-based artificial intelligence **API** to generate in-game, real-time strategy suggestions based on player input.

## LEADERSHIP DEVELOPMENT &amp; UNIVERSITY INVOLVEMENT

**SOCIETY OF HISPANIC PROFESSIONAL ENGINEERS (SHPE) – UCF Chapter**

Orlando, FL

*Board Member, Tech Committee*

Oct

2022–Present

- Contributed to strategic direction and organizational success by participating in decision-making processes and collaborating with fellow board members to shape SHPE UCF's mission with 300+ members.
- Enhanced the technology sector of SHPE by utilizing strong communication and leadership skills, as well as extensive technical knowledge, aiding in the implementation of new tech initiatives and projects- such as a discord Chatbot that improved organizational efficiency by 15%.