

KYLE MIRANDA

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Education

University of Central Florida

Graduated August 2025

B.S. in Computer Science

Orlando, FL

- **Courses:** Data Structures & Algorithms, Object-Oriented Programming, Robot Vision, Software Engineering, AI for Game Programming, Operating Systems, Computer Logic and Organization, Algorithms for Machine Learning
- **Activities:** Society of Asian Scientists and Engineers (SASE), Knight Hacks, ShellHacks, Lambda Phi Epsilon, Filipino Student Association, Men's Volleyball Club

Skills

Languages: JavaScript (TypeScript, React, Node.js), Python, Java, C, C#, SQL

Tools & Methodologies: Git, GitHub Actions, Azure DevOps, Agile Development, Jira, Unity, Vercel, Slack

Experience

VU Technologies, *Experience Developer Intern*

May 2026 – Present

- Architected and deployed full-stack **AI photo booth** web applications for multiple clients, integrating the **Replicate API** to transform user-captured photos into custom, client-branded scenes using generative AI.
- Built a **React 18** front end with live camera capture, before/after swipe comparison, QR code sharing, and email delivery, leveraging **Material-UI** and **Framer Motion** for a polished, responsive UI across desktop and mobile.
- Developed a **Node.js/Express** back end handling image uploads via Multer, AI processing pipelines, and transactional email delivery with Nodemailer, deploying continuously via **Vercel** with **Claude** as an AI development tool.

Projects

Dr. Hemo's Great Escape 🎮 | *Unity, C#, Meta XR SDK, Git, Azure DevOps*

Jan 2025 – Aug 2025

- Transformed a legacy browser-based game for the **UCF College of Medicine** into a multiplayer **virtual reality** escape room, teaching hematology and oncology concepts through immersive, gamified learning on Meta Quest devices.
- Optimized hospital-themed environments by debugging and polishing interactivity, ensuring smooth performance and controller compatibility across VR platforms, resulting in a **54%** performance improvement while simultaneously enhancing overall visual and gameplay quality.
- Engineered a full-stack faculty portal with Angular, ASP.NET Core, and Azure, enabling instructors to track gameplay analytics and evaluate student learning outcomes.

1st Place – KnightHacks: EcoSense 🌐 🎧 | *JavaScript, React, CSS, Next.js, Firebase, Clerk, Pinecone, Git*

Oct 2024

- Led a team of 4 to win 1st place at UCF's KnightHacks by building EcoSense, a smart platform that helps homeowners reduce energy costs and carbon footprint using real-time insights.
- Engineered seamless IoT and web integration by connecting Echo smart devices, implementing Retrieval-Augmented Generation (RAG) for tailored suggestions, and leveraging Next.js with Firebase for real-time data synchronization

Shell Guide: Itinerary Generator 🎧 | *MongoDB, Express, React, Node.js, HTML, CSS, JavaScript*

Sept 2024

- Developed Shell Guide: Itinerary Generator, a full-stack web app using MongoDB, Express, React, Node.js, HTML, CSS, and JavaScript, enabling users to create dynamic, personalized travel itineraries with location-based recommendations.
- Built intuitive front-end interfaces and robust back-end APIs to manage user data, itinerary storage, and real-time interactions, ensuring seamless performance and responsiveness.

Leadership Experience

Lambda Phi Epsilon Florida Graduate Chapter, *Vice President / Public Relations*

Jan 2026 – Present

- Lead the alumni board and support the chapter president's goals by coordinating initiatives, guiding members, and ensuring alignment with organizational priorities.
- Connect alumni across Florida while strengthening relationships between alumni and current undergraduate members through networking initiatives, mentorship opportunities, and collaborative events.

Filipino Student Association, *Public Relations Chair*

Apr 2024 – Apr 2025

- Increased member involvement and recruitment by **40%** in a **600+** member student organization by leading initiatives and directing a 24-person board to design engaging events and outreach strategies.
- Expanded organizational visibility to **50,000+** accounts and **600+** in-person attendees (students, alumni, and Florida community members) by organizing Sayaw, a large-scale cultural showcase, establishing the group as one of the most active cultural organizations on campus.