Andy Nguyen

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EDUCATION

University of Central Florida   Orlando, FL
Bachelor of Science in Computer Science   May 2025

RELEVANT EXPERIENCE

CompositionToday   2024-2025
Software Engineer
- Engineered and deployed a scalable full-stack pipeline to automate scraping and aggregation of data for music composers, boosting backend throughput and reducing manual workload.
- Optimized backend API performance to efficiently process large, scraped datasets, reducing system load and accelerating metadata queries.
- Launched a cross-platform Flutter app to the Google Play Store, leading to a **10x increase in active users** and improving user retention.

2025 UCF HSPT   2025
Technical Operations
- Managed competition machines and resolved live technical issues to ensure uninterrupted coding sessions for **100+ participants.**
- Monitored software environments and assisted teams with environment setup, system stability, and tool access during the event.
- Collaborated with event coordinators to proactively identify and address potential infrastructure failures.

UCF Clubs   2024
Web Developer
- Collaborated in an Agile team using Jira to develop a web app with a MongoDB backend, streamlining campus club operations for hundreds of users.
- Designed dynamic club registration and real-time member tracking, improving administrative workflows and reducing data-entry errors.
- Integrated frontend and backend components using JavaScript, ensuring seamless data flow and responsive user interactions across the platform.

Astral Explorer   2024
School Project
- Developed a Unity-based 2D roguelike game in C#, featuring modular level design and AI-driven enemy behavior.
- Engineered enemy AI with memory-aware behavior trees and resource-driven state transitions to manage attack cooldowns and movement logic.
- Designed the game for minimal UI and high difficulty, emphasizing user-driven discovery and challenge-based design to enhance player engagement and satisfaction.

TECHNICAL SKILLS
- Languages: Java, C++, C#, Python, JavaScript, TypeScript, SQL, HTML/CSS
- Frameworks/Tools: React, Next.js, Unity, TailwindCSS, Flutter, MongoDB, MySQL, Firebase, Docker, AWS

Other:
- Development: Agile, Git, Jira, Object-Oriented Programming, Scalable Systems