

# Anthony Ham

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## EDUCATION

### Florida International University

*Bachelor of Science in Computer Science; Honors GPA: 4.0*

Miami, FL  
December 2025

- Activities and Societies: Honors College, INIT, **Apple Pathfinder**, **Google Tech Exchange**
- Relevant Coursework: Calculus I/II, Discrete Structures, Programming I/II, Statistics for CS, Systems Programming

### Google

*Tech Exchange Program*

Mountain View, CA  
May 2024

- Completed accredited coursework and received direct mentorship from Googlers
- **Curriculum:** Applied Data Structures & Algorithms, Software Dev Studio, Careers in Tech

## EXPERIENCE

### Software Developer Intern

*Florida International University: Applied Research Center*

Dec 2023 – Present  
Miami, FL

- Spearheaded UI/UX enhancements in a C# .NET web application, leading to a groundbreaking **20% uplift in user satisfaction**. Implemented critical feature upgrades and optimized user interfaces, significantly enhancing the end-user experience and operational efficiency.
- Innovated and deployed a sophisticated dynamic HTTP error response system, elevating operational diagnostics with comprehensive error analytics. This strategic initiative resulted in a remarkable **30% reduction in debugging time** and a **15% decrease in application downtime**, streamlining error resolution processes and bolstering system reliability.
- Played a pivotal role in a collaborative, cross-functional team environment, driving significant enhancements in application stability and performance. Adopted cutting-edge industry practices and contributed to a robust development strategy, yielding a **20% enhancement in application performance** and a **10% reduction in critical user-reported incidents** across all client-facing software. Demonstrated exceptional teamwork and technical acumen, significantly influencing the projects success and operational excellence.

### Computer Science Tutor

*MDC School of Engineering and Technology*

Aug. 2022 – Aug. 2023  
Miami, FL

- Conducted 60-minute tutoring sessions, mentoring 2 to 5 students daily in mastering programming concepts, resulting in an average **15% increase in their grades** and a **20% improvement in test scores**.
- Cultivated a dynamic and collaborative learning atmosphere, inspiring students to actively engage with course material, which led to a **25% increase in retention of computer science concepts** and an **average GPA improvement of 0.5 points** among the students I mentored, empowering students to excel in their coursework.

## PROJECTS

### Orbit (Social Media Web App) | HTML/CSS, Tailwind, NextJS, Vercel, MongoDB, React

Nov 2023 – Dec 2023

- Pioneered the development of a cutting-edge web application, **Orbit**, leveraging the full potential of HTML/CSS, Tailwind, NextJS, React, and MongoDB. Designed to enhance digital interaction, **Orbit** introduces a novel platform for live text and voice chats, significantly fostering community engagement and collaboration.
- Crafted an intuitive and engaging user interface utilizing Tailwind and React, enabling seamless social interactions. This strategic design approach not only elevated the user experience but also established a new benchmark for user-friendly social media applications.

### FIU Rooms | HTML/CSS, Tailwind, NextJS, Vercel, MongoDB, React

Sept 2023 – Sept 2023

- Engineered an innovative Python-based web scraper for real-time acquisition of class schedules and room availability from Florida International University's portal. This automation framework not only streamlined data collection but also supported the dynamic content delivery for **FIU Rooms**.
- Launched **FIU Rooms**, a web application that transforms how students interact with campus facilities. By providing live classroom statuses, detailed class schedules, and specifications, the platform attracted over 100 daily users, significantly enhancing the educational experience at FIU.
- Established a continuous feedback loop with the user community to iteratively refine and enhance **FIU Rooms**. This commitment to user-centric design and agile development practices underscored a relentless pursuit of excellence and innovation, leading to a markedly improved user interface and functionality.

## TECHNICAL SKILLS

**Languages:** C++, C, C#, Java, Python, SQL, JavaScript, XSLT, XML (XSD) Schema, HTML/CSS

**Frameworks:** jQuery, React, Next.js, Node.js, Express.js, Mongoose / MongoDB, MySQL, Bootstrap, Tailwind, .NET

**Developer Tools:** Git, Heroku, WordPress, Firebase, Auth0, AWS, MongoDB Atlas, Google Cloud

**Libraries:** pandas, NumPy, Matplotlib, Pyplot