Anthony Ham

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EDUCATION

Florida International University   Miami, FL
Bachelor of Science in Computer Science; Honors GPA: 4.0   *December 2025*
- Activities and Societies: Honors College, INIT, Tau Beta Pi Engineering Society **Apple Pathfinder, Google Tech Exchange**
- Relevant Coursework: Calculus I/II, Discrete Structures, Programming I/II, Statistics for CS, Systems Programming

Google   Mountain View, CA
Tech Exchange Program   *May 2024*
- Completed accredited coursework and received direct mentorship from Googlers
- **Curriculum**: Applied Data Structures & Algorithms, Software Dev Studio, Careers in Tech

EXPERIENCE

Software Engineer Intern   May 2024 - August 2024
State Farm   *Remote*
- Designed and developed a GPU monitoring system for State Farm's AWS environment, monitoring GPU usage for all running notebook instances, **saving over 30% in running costs**.
- Enabled Bedrock invocation using Terraform, Python, and JavaScript to securely invoke AI models, ensuring sensitive information was thoroughly scrubbed and sanitized before processing, **enhancing data privacy and security protocols.**
- Began the implementation of MLflow within the AWS environment, enabling ML and Data engineers to leverage advanced tracking and model management capabilities, **improving workflow efficiency and model lifecycle management.**

Software Engineer Intern   Dec 2023 – Present
Florida International University: Applied Research Center   *Miami, FL*
- Led UI/UX redesigns in a C# .NET web application, **resulting in a significant 20% increase in user satisfaction**. Enhanced key features and streamlined interfaces, dramatically **improving user experience and operational efficiency**
- Designed and developed an advanced AI/ML application for the Department of Operational Test Evaluation (DOT&E), which **enhanced analytical capabilities and secured additional funding for ongoing development**.
- Proactively updated and enhanced the platform to ensure compliance with DOT&E requirements and deadlines.

Computer Science Tutor   Aug. 2022 – Aug. 2023
MDC School of Engineering and Technology   *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

AI Lecture Assistant | *Python, Streamlit, BigQuery, Vertex AI, Gemini, Imagen, Speech to Text, Docker, Google Cloud* April 2024
- Directed the development of **ClassCorder** under **Google's Tech Exchange program**, an educational tool that has empowered students to enhance learning through digital transformation of lectures into interactive transcripts.
- Engineered and led the quiz feature in ClassCorder, using advanced AI technologies like **Speech to Text and Gemini AI**. This feature offers **customizable quizzes on any subject, significantly boosting student engagement and comprehension** by adapting difficulty levels and question counts based on user performance.
- Implemented AI-driven feedback feature that provides **personalized insights and learning tips post-quiz**.

Empty Classroom Finder for FIU | *HTML/CSS, Tailwind, NextJS, Vercel, MongoDB, React, Python, Selenium*   Sept 2023
- Developed a Python-based web scraper for real-time data acquisition from Florida International University's class portal, allowing the ability to display **accurate and live data** within FIU Rooms.
- Launched **FIU Rooms**, a web application that revolutionized campus interactions by providing live updates on classroom availability and schedules, leading to a **user base of over 1000 unique visitors and over 4000 page views** within 30 days.
- Fostered a continuous improvement culture by establishing a feedback loop with users, which led to three major updates enhancing UI/UX. This responsiveness to user feedback contributed to a **40% increase in user retention and a notable boost in platform satisfaction rates**.

TECHNICAL SKILLS

Languages: C++, C, C#, Java, Python, SQL, TypeScript, 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