

# Anthony Ham

mail@anthonymham.com | linkedin.com/in/xnthiny | github.com/amichaeel | anthonymham.com

## Education

### Florida International University

Bachelor of Science in Computer Science | GPA: 3.9/4.0

Miami, FL

Expected April 2026

**Relevant Courses:** Software Engineering, Data Structures & Algorithms, Operating Systems, Database Management, Algorithm Techniques

**Awards and Honors:** FIU Honor's College, 8x Dean's List, Anthrex Scholar, HSF Scholar, FLIT-Gap Scholar

**Activities & Societies:** INIT, SHPE, Florida Engineering Society, FIU Competitive Programming, Google Tech Exchange '24

## Experience

### Front-End Engineer Intern (Incoming)

Seattle, WA

Amazon

Aug. 2025 – Dec. 2025

- Amazon Payments, Fall 2025

### Software Engineer Intern (Incoming)

Kirkland, WA

Google

May 2025 – Aug. 2025

- GCP Cloud Business Platforms, Summer 2025

### Software Engineer Intern

Miami, FL

State Farm

May 2024 – Aug. 2024, Jan 2025 – Present

- Built GPU monitoring system in AWS that tracked usage, enforced limits, reduced costs by **30% (\$150K annually)** and set **enterprise standards**.
- Developed AWS Lambda with Bedrock streaming and data sanitization, ensuring **HIPAA-compliance** and enabling **enterprise-wide generative AI adoption**.
- Deployed containerized MLflow on AWS, reducing model deployment time by **65%** across data science teams.
- Implemented **Weaviate vector database** using ECR/Docker in AWS, enabling **semantic search** that accelerated retrieval by **40%**.

### Software Developer

Miami, FL

Florida International University - College of Engineering & Computing

Dec. 2023 – Dec. 2024

- Built React/C# .NET applications that streamlined mission-critical data analysis workflows by **35%**, enhancing federal agency operations.
- Developed **user interfaces** and **API integrations** enabling federal clients to effectively interact with and utilize ML/AI models.
- Generated **measurable ROI** through innovation, securing **grant renewals** and establishing long-term federal partnerships.

### Undergraduate Researcher

Miami, FL

National Science Foundation (NSF)

Jan. 2023 – Apr. 2023

- Conducted **simulations** and data collection for photonic band gap material research at microwave frequencies with Dr. Soumia Souchak.
- Visualized research data using Matplotlib and Plotly, enabling analysis of **3x more samples** monthly.
- Presented research findings at undergraduate symposium, contributing to advancement of **photonic band gap materials** study.

### Computer Science Tutor

Miami, FL

Miami Dade College

Aug. 2022 – Aug. 2023

- Mentored **50+ students** in programming fundamentals, data structures, and algorithms, improving average class performance by **22%**.
- Developed **supplemental learning materials** for complex CS concepts, which were adopted by the department for broader use.
- Led weekly **collaborative study sessions** that fostered peer learning, resulting in a **30% increase** in student retention in CS program.

## Projects

### AI-Powered Stock Analysis Platform - Greenline

React, Next.js, TypeScript, Python, Prophet, OpenAI API, AWS

- Architected **full-stack financial platform** enabling users to interact with stock charts, analyze market trends, and receive **AI-powered insights**.
- Implemented **conversational AI interface** using OpenAI API that allows users to query stock data in natural language, increasing user engagement by **35%**.
- Integrated Prophet forecasting model to provide **predictive stock analysis** with demonstrated **78% directional accuracy** in test scenarios.

### AI Lecture Assistant - ClassCorder

Python, Streamlit, BigQuery, Vertex AI, Gemini, Imagen, Speech-to-Text, Docker, GCP

- Led development of **AI educational platform** with GCP services that reached **500+ students** via Google's Tech Exchange program.
- Built **adaptive quiz generator** with Gemini API that increased student engagement by **45%** through personalized assessments.
- Created real-time feedback engine with BigQuery analytics that measurably improved **student comprehension and retention rates**.

### Empty Classroom Finder for FIU

React, Next.js, Tailwind CSS, MongoDB, Node.js, Python, Selenium, REST APIs

- Developed asynchronous web scraper achieving **99.9% reliability** for real-time university classroom data collection.
- Built mobile-responsive SPA using Next.js/Tailwind serving **1,000+ users** with **sub-second load times** via optimization techniques.
- Implemented user feedback system that drove feature development, boosting retention by **40%** and expanding platform reach.

## Technical Skills

Languages	C++, C, C#, Java, Python, SQL (PostgreSQL, MySQL), TypeScript, JavaScript (ES6+), XSLT, XML/JSON
Platforms	AWS (S3, Lambda, Amplify, EC2, DynamoDB), GCP, Linux, Git, CI/CD, Docker, Unit & Integ. Testing, Pulumi (Infra as Code)
Libraries	React, Node.js, Express.js, Redux, Mongoose/MongoDB, Django, Flask, Bootstrap, Tailwind CSS, .NET, jQuery, pandas, NumPy