

# Anthony Ham

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## Education

### Florida International University

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

Miami, FL

Expected April 2026

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

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

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

## Work Experience

### Front-End Engineer Intern (Incoming)

Amazon

Seattle, WA

Aug. 2025 – Dec. 2025

- Amazon Payments, Fall 2025.

### Software Engineer Intern (Incoming)

Google

Kirkland, WA

May 2025 – Aug. 2025

- GCP Cloud Business Platforms, Summer 2025.

### Software Engineer Intern

State Farm

Miami, FL

May 2024 – Aug. 2024, Jan. 2025 – Present

- Created a GPU monitoring system in AWS tracking usage, enforcing limits, resulting in reduced costs by **30% (\$150K annually)**.
- Orchestrated AWS Lambda function with Bedrock streaming and data sanitization protocols for secure AI integration across all of State Farm.
- Deployed containerized MLflow on AWS, reducing model deployment time by **65%** across data science teams.
- Engineered **Weaviate vector database** using ECR/Docker in AWS, accelerating retrieval by **40%** through **semantic search** capabilities.

### Software Developer

Florida International University - College of Engineering & Computing

Miami, FL

Dec. 2023 – Dec. 2024

- Architected React/C# .NET applications streamlining mission-critical data analysis workflows by **35%**, enhancing federal agency operations.
- Designed **user interfaces** and **API integrations** for federal clients to interact with and use ML / AI models.
- Generated **measurable ROI** through innovation, securing **grant renewals** and establishing long-term federal partnerships.

### Undergraduate Researcher

National Science Foundation (NSF)

Miami, FL

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, analyzing **3x more samples** monthly.
- Presented research findings at undergraduate symposium, contributing to advancement of **photonic band gap materials** study.

### Computer Science Tutor

Miami Dade College

Miami, FL

Aug. 2022 – Aug. 2023

- Mentored **200+ students** in programming fundamentals, data structures and algorithms, improving the average class performance by **22%**.
- Led weekly collaborative study sessions fostering peer learning, resulting in **30% increase** in student retention in CS program.

## Projects

### AI-Powered Stock Analysis Platform - Greenline

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

- Conceived full-stack financial platform with interactive stock charts and AI-driven market trend analysis, **reducing user research time by 60%**.
- Crafted **conversational AI interface** using OpenAI API for natural language stock queries, increasing user engagement by **35%**.
- Integrated Prophet forecasting model providing **predictive stock analysis** with demonstrated **78% directional precision** in test scenarios.

### AI Lecture Assistant - ClassCorder

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

- Led an **AI educational platform** with GCP services reaching **500+ students** via Google's Tech Exchange program.
- Created **adaptive quiz generator** with Gemini API that increases student engagement by **45%** through personalized assessments.
- Produced real-time feedback engine with BigQuery analytics improving **student comprehension and retention rates**.

### Empty Classroom Finder for FIU

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

- Programmed an asynchronous web scraper achieving **99.9% reliability** for real-time university classroom data collection.
- Constructed mobile-responsive SPA using Next.js/Tailwind serving **1,000+ users** with **subsecond load times**.
- Added user feedback system to drive feature development, increasing retention of **40%** and expanding the reach of the platform.

## 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