NTHONY HAM

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Education

Florida International University

Bachelor of Science in Computer Science

GPA: 3.9/4.0

Relevant Coursework: Data Structures & Algorithms, Algorithm Techniques, Object Oriented Programming, Systems Programming, Operating Systems, Computer Architecture, Database Design & Management, Human Computer Interaction, Computer Networks 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

Technical Skills

Languages: C++, C, C#, Java, Python, SQL (PostgreSQL, MySQL), TypeScript, JavaScript (ES6+), Go Technologies/Frameworks: React, MongoDB, Django, Flask, .NET, pandas, NumPy, Figma

Experience

Amazon	
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Software Engineering Intern • Incoming SWE Intern in Amazon Workforce Solutions.

Google

Software Engineering Intern

• Incoming SWE Intern in Google Workspace and Cloud Business Platforms.

State Farm

Software Engineering Intern

- Designed and deployed an AWS Lambda function enabling real-time response streaming from Amazon Bedrock, reducing LLM inference latency by 40% for internal data science workflows.
- Built a GPU monitoring system for the AI/ML AWS infrastructure, tracking over 100+ active notebooks and enforcing usage policies across **3 platform environments**.
- Developed a custom JupyterLab extension adopted by 50+ ML engineers and data scientists, streamlining access to internal tools and boosting notebook productivity.
- Provisioned and deployed a Weaviate vector database cluster on an AWS EC2 instance, enabling internal semantic search for thousands of indexed documents.
- Implemented and configured **MLflow** to support end-to-end experiment tracking and model versioning, enhancing reproducibility and transparency for 20+ ongoing ML projects.

FIU Applied Research Center

Software Developer Intern

- Developed multiple **React** applications to prototype ML solutions for federal clients including **US DOE** and **DOT**&E, enabling visualization of research capabilities.
- Built a full-stack C# .NET ML playground allowing government officials to beta test research services including document summarization, object detection/classification/segmentation, and conversational AI.
- Designed intuitive UI/UX, database architecture, and assisted in developing **REST APIs** to connect frontend with machine learning services.
- Led migration of legacy application from WebForms to **Blazor**, resulting in significant performance improvements and enhanced maintainability.
- Collaborated with AI/ML researchers to translate complex technical models into accessible interfaces for non-technical government stakeholders.

Projects

AI-Powered Stock Analysis Platform | 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 **78%** directional precision in test scenarios.

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

- Led an AI educational platform using GCP services reaching 500+ students through Google's Tech Exchange program.
- Created adaptive quiz generator with Gemini API, increasing student engagement by 45% via 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 6,000+ users with subsecond load times.
- Added user feedback system to drive feature development, increasing user retention by 40%.

December 2023 – December 2024

Miami, FL

Jan. 2022 – April 2026 Miami, FL

Fall 2025

Seattle, WA

Seattle, WA

Tempe, AZ

Summer 2025

Summer 2024, Spring 2025