ANTHONY HAM

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EDUCATION

Florida International University   Miami, FL
Bachelor of Science in Computer Science; Honors College; GPA: 3.8/4.0   *Expected April 2026*

EXPERIENCE

Front-End Engineer Intern (Incoming)   August 2025 – December 2025
Amazon   *Seattle, WA*
- Amazon Payments, Fall 2025

Software Engineer Intern (Incoming)   May 2025 – August 2025
Google   *Kirkland, WA*
- GCP Cloud Business Platforms, Summer 2025

Software Developer   December 2023 – December 2024
Florida International University - College of Engineering & Computing   *Miami, FL*
- Engineered **scalable full-stack applications** for the Department of Operational Test & Evaluation (DOT&E) and Department of Energy (DOE) using **React, Express.js, and PostgreSQL**, streamlining mission-critical data analysis workflows by **35%**.
- Architected and deployed **machine learning algorithms and AI models** using **Python, scikit-learn, and TensorFlow** that transformed raw government data into actionable insights, resulting in **faster decision-making cycles** and improved data visualization for high-level stakeholders.
- Delivered **measurable ROI** through technical innovation and data-driven solutions, directly contributing to **successful grant renewals** and establishing long-term partnerships with federal agencies.

Software Engineer Intern   May 2024 – August 2024, Jan 2025 – April 2025
State Farm   *Remote*
- Architected a comprehensive **GPU resource optimization system** using **Python, AWS Lambda, CloudWatch, and DynamoDB**, resulting in **30% cost reduction** ($150K annually) and establishing best practices for enterprise-wide cloud resource management.
- Developed secure **AI/ML model integration pipeline** with **Terraform IaC, AWS Bedrock, and S3** for sensitive data processing, implementing advanced sanitization protocols that ensured **HIPAA compliance** while handling 10,000+ daily transactions.
- Led the implementation of **MLOps automation** through **containerized MLflow deployment on AWS ECS/ECR**, enabling **CI/CD for machine learning workflows** and reducing model deployment time from days to hours (65% improvement) across multiple data science teams.

PROJECTS

AI Lecture Assistant - ClassCorder | *Python, Streamlit, BigQuery, Vertex AI, Gemini, Imagen, Speech-to-Text, Docker, GCP*   April 2024
- Led a cross-functional team to develop an **end-to-end AI educational platform** under **Google's Tech Exchange program**, leveraging **GCP's AI/ML services** to transform lecture content into interactive learning materials viewed by 500+ students.
- Architected an **adaptive quiz generation system** using **Gemini API and Speech-to-Text**, implementing **NLP techniques** to create personalized assessments that dynamically adjust difficulty based on user performance metrics, increasing student engagement by **45%**.
- Implemented a **real-time feedback engine** with **BigQuery analytics integration** that provides **data-driven personalized insights**, resulting in measurable improvements in student comprehension and retention rates.

Empty Classroom Finder for FIU | *React, Next.js, Tailwind CSS, MongoDB, Node.js, Python, Selenium, REST APIs*   Sept 2023
- Engineered a **high-performance web scraper** using **Python, Selenium, and asynchronous processing** to extract and normalize real-time university classroom data, implementing **error handling and retry mechanisms** for 99.9% data reliability.
- Developed a **mobile-responsive SPA** using **Next.js, React Hooks, and Tailwind CSS** that delivered campus resource information to 1,000+ users, implementing **lazy loading and code splitting** techniques to achieve sub-second page load times.
- Established a **continuous user feedback system** with **analytics tracking** that guided three major feature releases, resulting in **40% higher user retention** and contributing to significant platform growth through word-of-mouth marketing.

TECHNICAL SKILLS

Languages: C++, C, C#, Java, Python, SQL (PostgreSQL, MySQL), TypeScript, JavaScript (ES6+), XSLT, XML/JSON
Frameworks & Libraries: React, Next.js, Node.js, Express.js, Redux, Mongoose/MongoDB, Django, Flask, Bootstrap, Tailwind CSS, .NET, jQuery, pandas, NumPy
Developer Tools: Git, GitHub Actions, CI/CD, Docker, Kubernetes, AWS (Lambda, S3, EC2, ECS), Google Cloud Platform, Firebase, Auth0, Heroku, MongoDB Atlas, REST APIs, GraphQL, Agile/Scrum