

Alan D. Medina

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EDUCATION

Georgia Institute of Technology

Atlanta, GA

Bachelor of Science in Computer Science, GPA: 3.5

May 2027

- **Concentrations:** Intelligence & Info Internetworks
- **Related Coursework:** Data Structures, Analysis of Algorithms, Objects & Design, Computer Organization, Systems and Networks, Database Systems, Intro to AI, Machine Learning, Robotics & Perception
- **Awards:** Tech Promise Scholar, The Gates Foundation Scholar, Hispanic Scholarship Fund Scholar, MLT CP2027

TECHNICAL SKILLS

Programming Languages: Java, Python, C, C++, C#, Swift, Objective-C, JavaScript, TypeScript, SQL, HTML/CSS

Frameworks & Development Tools: Git, Docker, Firebase, Postman, VS Code, Heroku, Jupyter, IPFS, MetaMask, Pandas, NumPy, React, Remix, Node.js, Android Studio, PyTorch, Ant Design

EXPERIENCE

Georgia Institute of Technology AI Department | *AI Development Intern*

Dec 2024 - Present

- Developed machine learning models and automated ETL pipelines using Python and SQL to analyze 5,000+ applicant records, improving yield prediction accuracy and reducing manual data preparation time
- Built full-stack internal dashboards using Flask, React, and PostgreSQL to visualize admissions trends and support stakeholder reporting

Peachtree Immediate Care Platform Engineering | *Software Engineer Intern*

Jan 2025 - Aug 2025

- Built ML-based anomaly detection pipelines and backend automation tools in Python to detect system issues, streamline diagnostics, and reduce manual operational workload across 5+ clinics
- Developed and maintained full-stack internal tools and web services to support clinical platforms across 5+ urgent care locations

KidsNextCode | *Programming Instructor Intern*

Jun 2024 - Aug 2024

- Designed and delivered a 6-week, project-based programming curriculum in Python, JavaScript, and HTML, mentoring 150+ middle and high school students in hands-on web and game development

PROJECTS

MicroTorch | *Python, PyTorch, NumPy*

- Built a lightweight neural network framework from scratch in Python with custom layers, activation functions, loss functions, and backpropagation, validating performance on XOR regression and classification tasks
- Implemented end-to-end ML workflows including data preprocessing, training loops, and random seed evaluations

GT Vertically Integrated Project - Empathy Bytes | *Unity, Luma AI, React Native, Figma, Drupal, JavaScript*

- Built immersive XR environments in Unity and Blender using 12+ cultural 3D models and Luma AI scans, increasing user immersion ratings by 23%
- Developed and deployed a responsive web platform with interactive AR overlays using Drupal, JavaScript, HTML/CSS, and Figma, boosting repeat visitor engagement by 30%

Outamation (AI & Automation Externship) | *OpenCV, LlamaIndex, RAG, NLP*

- Built AI-powered pipelines for document classification and data extraction using NLP, computer vision, and Python-based OCR workflows
- Developed a RAG-based retrieval system with LlamaIndex to improve search accuracy across mortgage documents while evaluating open-source models for performance

LEADERSHIP & PROFESSIONAL DEVELOPMENT

Google Latinx Student Leadership Summit | *Student Leader*

Apr 2024

- Selected as 1 of 50 student leaders (3% acceptance) for a leadership and professional development program featuring fireside chats, leadership sessions, skill-building and workshops

Student Organization for Latinos in Computing (SOLC) | *Co-Founder & Vice President*

Nov 2023 - Present

- Led partnerships with Google, Pinterest, and others to host workshops and panels for 100+ Latinx students in tech

Other Activities: Bloomberg Hispanic Tech Summit, Capital One Black & Hispanic Tech Summit, J.P. Morgan Code For Good