

Muadh George

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Education

Georgia Institute of Technology

May 2025

Bachelor of Science in Computer Science (GPA: 3.42 / 4.00)

Atlanta, GA

- **Relevant Coursework:** Data Structures & Algorithms (Java), NLP (Python), Machine Learning (Python), GPU Hardware & Software (C++), Advance Analysis of Algorithms (Python), Object-Oriented Programming, Linear Algebra

Technical Skills

Languages: Python, Java, C++, C, Go, JavaScript, TypeScript, SQL, Swift, C#, R, VB.NET

Technologies: React.js, Next.js, Node.js, Express.js, Flask, Angular, Tailwind CSS, GraphQL, CUDA, TensorFlow, .NET, AWS (Lambda, S3, CloudFront), Azure, Gin

Concepts: Compiler, Operating System, Virtual Memory, Cache Memory, Encryption, Decryption, Artificial Intelligence, Machine Learning, Neural Networks, API, Database Normalization, Agile Methodology, Cloud Computing

Experience

CodeByrd

May 2025 – present

Software Engineer (Contract)

Atlanta, GA

- Automated lead capture and enabled scalable payment processing for small business clients.
- Reduced customer response latency by 40% and increased lead conversion rates by 20%.
- Architected AI-powered chatbots using Google Cloud and OpenAI while integrating Stripe payment gateways with Next.js.

Georgia Institute of Technology

Aug 2023 – Dec 2024

Machine Learning Research Engineer

Atlanta, GA

- Visualized complex urban inclusivity patterns to inform sustainable development strategies.
- Optimized data processing efficiency by 25% supporting 2 major UN SDG initiatives.
- Built predictive models and interactive dashboards using Python, Pandas, Scikit-learn, and TensorFlow.

Cirrus Labs

May 2024 – Aug 2024

Software Engineer Intern

Atlanta, GA

- Strengthened platform security and improved application responsiveness for end-users.
- Boosted database query efficiency by 50% and reduced user support resolution time by 30%.
- Implemented JWT authentication protocols and optimized data handling using Azure Cosmos DB text embeddings.

AMO Auto

Jan 2024 – May 2024

Software Developer Intern

Atlanta, GA

- Boosted user engagement and streamlined real-time car inventory management.
- Increased engagement metrics by 40% and reduced page load latency by 35%.
- Developed a responsive full-stack web application using Next.js 14, Tailwind CSS, and Edge Functions backed by MySQL.

Projects

AWS-Powered Media Hub | AWS S3, CloudFront, Lambda, Go, React, JavaScript

- Enabled scalable video streaming and automated handling of traffic spikes without manual intervention.
- Achieved 99.9% system uptime and reduced global content delivery latency by 40%.
- Architected a serverless backend using AWS Lambda, S3, and CloudFront optimized with Go concurrency.

GPU Branch Divergence Simulator | C++, C, CUDA, Linux

- Simulated GPU hardware instruction scheduling to analyze execution efficiency and control flow.
- Resolved 100% of thread divergence cases in test workloads using stack-based reconvergence.
- Implemented warp scheduling algorithms and branch prediction logic using C++ and CUDA.