

Abdullah Bazz

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EDUCATION

Georgia Institute of Technology

Bachelor of Science (BS) in Computer Science

May 2026

GPA: 3.54/4.0

EXPERIENCE

Researcher

Aug 2024 – Present

Georgia Tech - Vertically Integrated Projects

Atlanta, GA

- Optimizing a large language model (LLM) by training and fine tuning it on over 100 computer science syllabi, increasing its accuracy in providing course-related information by 25%.
- Collaborating with cross-functional teams to evaluate and refine the LLM's outputs, ensuring alignment with curriculum standards and minimizing costs while maintaining functionality.

Software Engineering Intern

May 2024 – August 2024

German Performance

Atlanta, GA

- Developed a dynamic website using React and Tailwind, boosting online user engagement by an estimated 60%.
- Refined cross-device compatibility by developing responsive media queries, guaranteeing a consistent and seamless user experience across various devices and screen sizes - from mobile to desktop.
- Streamlined appointment scheduling, authentication, and user reviews by integrating Google Web-scraping APIs and Firebase, improving operational efficiency and customer experience.

PROJECTS

AWS Media Streaming Platform | *AWS Lambda, AWS S3, Flask, Python, React, JavaScript*

- Created a scalable photo storage/sharing website with AWS Lambda, using serverless functions to handle increased traffic and eliminate the need for manual scaling.
- Integrating AWS S3 for durable photo storage, ensuring 99.9% uptime and reliable access to media.

RAG-Enhanced Support Assistant | *Langchain, Pinecone, NextJS, OpenAI LLM, JavaScript*

- Developed and trained an AI-powered assistant designed to streamline daily operations for mechanics, providing instant diagnostics reports on mechanical issues and improving overall workflow.
- Implemented Langchain and Pinecone for Retrieval-Augmented Generation (RAG), enhancing the chatbot's ability to provide accurate and context-aware answers by providing relevant data sources.

Spotify Analytics Dashboard | *Java, Firebase Auth, Spotify API, OpenAI LLM, Android Studio*

- Developed a full-stack Spotify Analytics Dashboard using Spotify API for year-round summaries and predictions.
- Enhanced user experience by utilizing AI to deliver personalized recommendations based on user data and make predictions about the users personality, resulting in a 15% increase in user engagement.
- Constructed back-end services in Java, including data handling, API integration, and database management, ensuring seamless performance and scalability for the application.

RSA Cryptologies Calculators | *React Hooks, Vite, JavaScript, Tailwind*

- Provided real-time encryption and decryption capabilities through the use of modular arithmetic, seamlessly integrated into the front-end for an abstracted/intuitive user experience.
- Later adopted by a Georgia Tech professor as a tool for over 1,200 students, increasing the course GPA by .6 points.

SKILLS & CERTIFICATES

Languages: Python, Java, JavaScript, C, HTML, CSS, Assembly, SQL

Development Tools: React, NextJS, Sass, Pinecone, Langchain, Tailwind, Vite, Overleaf

Cloudservices: Firebase, Linux, AWS Lambda, AWS S3, AWS EC2, Azure

Certifications: Google Course Certificate - Cybersecurity

LEADERSHIP

Muslim Student Association | *Activities Committee Lead*

- Worked with other organizations and fellow members to plan, budget, and execute events for over 300 students.

CEED - Center for Engineering Education and Diversity | *Peer 2 Peer Mentor*

- Mentored 10-12 computer science underclassmen each semester regarding academic choices and career development

Other Affiliations: Color Stack, NSBE, Servant Leader Scholars, Bits of Good, Intermural Soccer