

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

Relevant Coursework

Data Structures, Object-Oriented Programming, Design of Algorithms, Discrete Math

EXPERIENCE

Undergraduate 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 Engineer 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 Analytic Dashboard using **Spotify API** for year-round summaries and prediction.
- 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.
- Adopted by a Georgia Tech professor as a tool for over **1,200 students**, increasing the course GPA by **.6 points**.

SKILLS

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

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

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

Concepts: Machine Learning, Software Engineering, Frontend, Backend, Agile Methodologies, Scrum, Version Control

LEADERSHIP

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