

Abdullah Bazz

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EDUCATION

Georgia Institute of Technology

Expected Graduation: May 2026

Bachelor of Science (BS) in Computer Science

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

- Fine-tuned a **Llama 3.2 model** in **Azure Foundry** on approximately **100** Georgia Tech syllabi, achieving a **significant improvement** in the model's accuracy for delivering course-related information.
- Developed a **dynamic front-end** interface with a login system powered by **Firebase Auth** and a toggle side panel that saves and displays previous chats, enhancing user experience and interaction.

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

American Sign Language Hand Detector | *Python, Numpy, Tensorflow, OpenCV, Matplotlib, Docker, Computer Vision*

- Trained a **Neural Network** with **Tensorflow** on approximately **200,000 images** using a virtual GPU, resulting in accurate **real-time** ASL hand-sign recognition through a live camera feed.
- Implemented a **Docker-based** deployment pipeline to streamline the **training and testing** of the ASL model, ensuring **consistent environment** replication for any virtual GPU or potential collaborators.

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.

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, Cryptography, 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

Development Tools: React, Next.js, Pinecone, LangChain, Docker, Python Libraries, Tailwind, Sass

Cloudservices: Firebase, Linux, AWS (Lambda, S3, 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