

Ahmed Alamin

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EDUCATION

Georgia Institute of Technology

Atlanta, GA | Expected Grad May 2027

Bachelor of Science in **Computer Science** | **Threads:** Information Internetworks & Intelligence | **Transfer GPA:** 3.82

- **Relevant Coursework:** Object Oriented Programming, Data Structures & Algorithms, Objects and Design, Computer Organization and Programming, Discrete Math, Linear Algebra, CodePath Technical Interview Prep & Web Development
- **Activities:** ColorStack, NSBE, Black Student Computing Org, Big Data Big Impact, CodePath, Intramural Soccer

SKILLS

- **Languages/Frameworks:** Python, Java, C, JavaScript, HTML/CSS, React, Node.js, Flask, MongoDB
- **Technologies:** Git, Visual Studio Code, Maple, Microsoft Office
- Fluent in Arabic

EXPERIENCE

AI4ALL Ignite, Fellowship

Virtual | Sep 2024 - Feb 2025

- Collaborated with 4 peers to develop a supervised learning model and present at an AI symposium, applying machine learning skills developed from weekly workshops including data preprocessing, computer vision, NumPy, and pandas.
- Bolstered AI career readiness through 5 meetings consisting of technical interview prep, resume reviews, and networking.

Capital One Black and Hispanic Tech Summit, Participant

Virtual | Week of May 13th, 2024

- Chosen as one of 49 participants (~14%) to attend a week-long virtual summit. Included workshops on Git, Arduino, APIs, AR, React, Node.js, and the GCA.
- Participated in the concluding Fintech-themed hackathon, collaborating with 2 peers to create an investment portfolio site.
- Oversaw development of a feature allowing users to enter stock tickers and retrieve real-time data via AlphaVantage API.

Mentor Me Collective's Grow with Google Scholarship, Recipient

Virtual | Aug 2024 - Nov 2024

- Chosen as one of 50 finalists from thousands awarded a scholarship for Google's Coursera Cybersecurity Certificate.
- Leveraged scholarship to master Python, SIEM tools, SQL, Linux, and IDS, putting skills to work via a capstone project.

Mathnasium, Math Tutor

Paoli, PA | Jan 2024 - Present

- Assessed and tutored mathematical skills for K-12 students, creating customized learning paths to establish solid mathematical foundations, address gaps, and develop problem-solving and critical thinking skills.

TECHNICAL PROJECTS

Movie & TV Series Tracker | MongoDB | Express | React | Node.js

- Developed a full-stack website for browsing 10,000+ movies and TV shows and curating watchlists using MERN stack.
- Built a secure user registration system to store login information and watchlist data in MongoDB. Used Express, JWT, and bcrypt (cost factor 12) to enhance password security and reduce unauthorized access, with Mongoose for schemas.
- Managed connections between React and Node.js using Axios for HTTP requests and CORS/Express for middleware.

Rubik's Cube Simulator | Flask | JavaScript | HTML/CSS

- Simulated a Rubik's Cube model using Flask, JavaScript, and HTML/CSS, featuring buttons for 18 rotation options, cube reorientation, reset, and randomization functions.
- Architected a responsive Rubik's Cube simulator by optimizing HTTP requests for sub-300-millisecond state updates.

Structural Flexural Member with Smart Technology | Arduino | C++

- Collaborated with a team of 5 in designing and constructing a 7.5ft wood beam bridge, overcoming budget constraints and project constraints of 0.25-inch deflection and 800 strain through structural mechanic mathematical analysis.
- Integrated Arduino and C++ with wood beam and strain gauges to enable real-time monitoring of strain and deflection.