# Ahmed Alamin

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## EDUCATION

**Georgia Institute of Technology** — Atlanta, GA

*Bachelor of Science in **Computer Science** — **GPA:** 3.82* — *Expected Grad May 2027*

***Concentrations:*** *Information Internetworks & Intelligence*

***Relevant Coursework:*** *Data Structures & Algorithms, Objects and Design, Computer Organization and Programming*

***Activities:*** *ColorStack, NSBE, Black Student Computing Org, Muslim Tech Collaborative, CodePath, Intramural Soccer*

## SKILLS

**Languages/Frameworks**: Java, Python, JavaScript, HTML/CSS, C, React, Node.js, Flask
**Technologies**: Git, Visual Studio Code, MongoDB, Microsoft Office, Maple
Enrolled in Google's Cybersecurity Professional Certificate
Fluent in Arabic

## EXPERIENCE

**Website Development Team Member** — Oct 2024 – Present

*Muslim Tech Collaborative @ Georgia Tech* — *Atlanta, GA*

- In process of developing creative, user-friendly website hosting Georgia Tech MTC's chapter's information
- Collaborated with a team of 5 to achieve key deliverables, using a MERN stack + Tailwind for the full-stack

**Fellow** — Sep 2024 – Feb 2025

*AI4ALL Ignite* — *Virtual*

- Worked with 1 peer to develop a supervised learning model, aiming for 90%+ accuracy in predicting pneumonia
- Developed a computer vision model using OpenCV and PyTorch to analyze pediatric chest X-rays in children
- Applied data preprocessing and analyzed metrics to achieve target accuracy using scikit-learn, pandas, and NumPy

**Math Tutor** — Jan 2024 – Present

*Mathnasium* — *Paoli, PA*

- 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

## PROJECTS

**Entertainment Watchlist** | *MongoDB, Node.js, Express, React, HTML/CSS*

- Developed a full-stack website for browsing over 10,000+ movies and series via OMDb API and curating watchlists
- Built a secure user registration environment, utilizing bcrypt to achieve $2^{10}$ possible password hashes
- Utilized Mongoose to established a database connection with Express and to create a user schema

**Rubik Cube Simulator** | *Flask, JavaScript, Python, HTML/CSS*

- Simulated a Rubik's Cube model featuring buttons for 18 rotation options, reorientation, reset, and randomization
- Crafted a responsive Rubik's Cube simulator utilizing HTTP requests for sub-10-millisecond cube state updates

## LEADERSHIP AND PROFESSIONAL DEVELOPMENT

**Academic Officer** — Oct 2024 - Present

*ColorStack Chapter @ Georgia Tech* — *Atlanta, GA*

- Recently accepted as Academic Officer tasked with providing academic support for Black and Latinx students by tracking exam dates, organizing study sessions, scheduling club office hours, and crowdsourcing study material

**Participant** — May 2024

*Capital One Black and Hispanic Tech Summit* — *Virtual*

- Chosen as one of 49 participants (14%) to attend a week-long virtual summit. Consisted of a fintech-themed hackathon and technical workshops on Git, Arduino, APIs, AR, React, Node.js, and the GCA