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, CodePath, NSBE, Black Student Computing Org, Big Data, Web Dev, Intramural Soccer

SKILLS

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

EXPERIENCE

Muslim Tech Collaborative at Georgia Tech, *Incoming Web Development Team Member*   Atlanta, GA | Fall 2024
- Accepted and committed to a team of 5 developing the new Muslim Tech Collaborative at Georgia Tech website.

AI4ALL Ignite, *Fellowship*   Virtual | Sep 2024 - Feb 2025
- Worked with 2 peers to develop a supervised learning model targeting 90%+ accuracy in predicting child pneumonia.
- Developed a computer vision model using OpenCV and PyTorch to analyze pediatric chest X-rays for pneumonia.
- Applied data preprocessing and evaluation metrics to achieve target accuracy using scikit-learn, pandas, and NumPy.
- Presented project at a symposium and enhanced career readiness through 5 meetings with interview prep 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.

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

Entertainment Watchlist | *MongoDB, Node.js, Express, React*
- Developed a full-stack website for browsing and curating watchlists given 10,000+ movies and series from OMDb API.
- Built a secure user registration system utilizing bcrypt to achieve 2^{10} possible password hashes and JWT as a secret key.
- Established a MongoDB database connection to Express and a user schema including a watchlist array using Mongoose.
- Managed React and Node.js server connection with Axios for requests and configured CORS for domain communication.

Rubik's Cube Simulator | *Flask, JavaScript, 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 by optimizing HTTP requests to achieve sub 10-millisecond state updates.

Front-End Personal Portfolio | *React, HTML/CSS*
- Designed a dynamic personal portfolio website featuring a home, about me, portfolio, contact, and resume sections.
- Utilized React, JavaScript, and HTML/CSS to implement animations and other features optimizing the user experience.
- Deployed portfolio on Vercel, achieving industry-standard 99.99% uptime, improving user experience and accessibility.