Mohamed Sharif

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EDUCATION

- **GEORGIA STATE UNIVERSITY** — Atlanta, GA
  Bachelor of Computer Science — Expected May 2026

- **Relevant Course Work**
  Calculus I & II, Cloud Computing, Computer Architecture & Assembly, Cybersecurity, Data Mining, Data Structures & Algorithms, Linear Algebra, Operating Systems, Principles of CS I & II, Probability & Statistics, Software Development, System-Level Programming

SKILLS

- **Programming**: C, HTML, Java, JavaScript, Next.js, Python, R, React, SQL, Tailwind
- **Tools:** AWS, Azure, Docker, Figma, Firebase, Git, Microsoft Office, MongoDB, MySQL
- **Other**: CI/CD, Command Line Interface, Data Preprocessing, UX/UI Wireframing

PROJECTS

- **Code Editor Application:** An online code editor designed for real-time collaboration across multiple devices. Ideal for students or teams that need a shared coding environment without an IDE.
  - Built with React, JavaScript, Jest, Firebase, EmailJS, and Judge0 API.
  - Support for multiple programming languages with a functional compiler.
  - Enabled live document sharing, version control, and user-specific security rules.
- **NBA PER Prediction Model:** A prediction model that can estimate NBA player efficiency ratings (PER) using historical statistics. Designed to assist analysts and fans in understanding player value based on performance metrics.
  - Processed and analyzed 11 seasons of NBA stats using Python.
  - Applied linear regression and feature selection for high-accuracy prediction.
  - Achieved over 95% model accuracy, highlighting impactful performance metrics.
- **Digital Manager:** A Java-based application that can help small businesses store and manipulate employee records.
  - Implemented add, search, update, and delete logic using array lists and hash maps.
  - Used GUI interface with Java Swing for a user-friendly design.
  - Built-in report generator for employee details, money distribution, and division information.
- **Gardening Blog:** A blog site built with HTML, CSS, and JavaScript. Documents the growth, layout, and daily care of a garden. Features responsive design for compatibility across all devices.
  - Four-page structure (Home, Tour, Gallery, About) with a unified theme and shared navigation.
  - Implemented dynamic "Plant Fact of the Day" section sourced from JSON.
  - Monthly photo section where users can view images in a carousel format.