Atlanta, Ga
U.S. Citizen

Mohamed Sharif

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EDUCATION

- **Georgia State University** *Atlanta, GA*
  Bachelor of Science in Computer Science *Expected Spring 2026*
- **Relevant Courses**
  Data Structures & Algorithms, Object Oriented Programming, Software Development, System Design, Operating Systems, Cloud Computing, Computer Architecture & Assembly, Data Mining, Calculus I & II, Linear Algebra, Probability & Statistics, Discrete Mathematics

SKILLS

- **Languages & Frameworks**: Python, Java, C, C++, Rust, JavaScript, TypeScript, HTML, CSS, Tailwind, Tauri, React, Node.js, FastAPI, Django
- **Databases & Tools**: PostgreSQL, MongoDB, MySQL, Git, AWS, Azure, Docker, Kubernetes, Bash, LangChain, Cursor, Figma, Notion, Microsoft Office
- **Data**: R Studio, Excel, Apache Spark & PySpark, PyTorch, TensorFlow, Databricks Tableau, Power BI, Matplotlib, Pandas, NumPy, Scikit-Learn
- **Concepts**: Web development, Version Control, APIs, Algorithm Design, Database Optimization, SEO, Wireframing, AI Integration, Machine Learning, Data Visualization, Data Pipelines

EXPERIENCE

- **Data Engineer Intern** *Decatur, GA*
  District Attorney's Office for Dekalb County *August 2025 – Present*

  - Engineered **automated Python scripts** to extract and clean PDF case data, **reducing manual data entry by 50%** and ensuring consistent formatting across multiple datasets.
  - **Designed SQL queries** to integrate historic criminal data with current criminal datasets, supporting **predictive models** for crime pattern analysis.
  - Used **Tableau and Matplotlib** to visualize prosecution trends, enabling prosecutors to **identify key risk factors** and **improve data-driven strategy sessions**.
  - Enhanced intelligence-based prosecution strategies using data pipelines and reporting workflows, potentially **increasing guilty verdicts by 17%**.

PROJECTS

- **Code Editor Application:** *github.com/4Sharif/Context* **Tech Stack**: *React, Node.js, Firebase*

  - Designed for code editing with real-time collaboration. Ideal for groups of people that need a shared coding environment without an IDE.
  - Main features are **document sharing, version control, and user authentication**. Support for multiple programming languages with a **functional compiler**.
  - Dependencies include **Monaco editor** (syntax highlighting), **Judge0** (compiler support), **Axios** (API requests), **Jest** (testing), and **EmailJS** (collaboration).

- **NBA Player Value Model:** *github.com/4Sharif/PER-Prediction-Model* **Tech Stack**: *Excel, Python, Machine Learning*

  - Built to estimate NBA player efficiency ratings (PER) using real statistics. Helps fans and analysts understand player value based on performance metrics. Includes an **interactive program** for testing.
  - Created an **11-year dataset** with **21 features**. Underwent a preprocessing phase, where the data was cleaned and transformed for machine learning. The dataset's size was **reduced by 23%**.
  - Split data into **80% training** and **20% testing** subsets. After applying **linear regression**, the model achieved over a **95% R^2** score. Feature importance analysis ranked the most impactful metrics.