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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 I & II, Object Oriented Programming, Software Development, System Design, Operating Systems, Cloud Computing, Computer Architecture, Cybersecurity Data Mining, Calculus I & II, Linear Algebra, Probability & Statistics, Discrete Mathematics

- **Relevant Achievements & Highlights**
  32 ACT score, 2020 State Farm Scholarship, 2023 Associates of Science in Computer Science, 2x Principles List, 2022 Programming Club Vice President, 2026 Software Capstone Project

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, Microsoft Excel, Apache Spark, 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*

  - Served as a **lead engineering intern** responsible for automating case data workflow. Built **Python ETL pipelines** to standardize data, **cutting manual entry time by 50%** and ensuring uniform, formatted datasets.
  - Leveraged **SQL** to execute optimized queries that extracted and structured historic criminal data, supporting the development of **predictive models** for identifying emerging crime trends across the county.
  - Use **Tableau** and **Matplotlib** to visualize large-scale prosecution datasets, **transforming raw records into actionable insights** that helped prosecutors detect high-risk regions and allocate resources effectively.
  - **Enhanced intelligence-based prosecution strategies** by developing visualizations, data pipelines, and reporting workflows, contributing to a projected **17% increase in successful verdicts**.

PROJECTS

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

  - **Web application** built for code editing with real-time collaboration. Ideal for groups of people that need a shared programming 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*

  - **Prediction model** for estimating 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** was performed to rank the most impactful metrics in order.