

EDUCATION

- **Georgia State University**
Bachelor of Science in Computer Science
Atlanta, GA
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
- **Academic 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, 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**
District Attorney's Office for DeKalb County
Decatur, GA
August 2025 – Present
 - Served as the **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 multiple 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 automated 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 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% R²** score. Feature importance analysis ranked the most impactful metrics.