Maira Athar

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Education

Texas A&M University May 2027
Bachelor of Science in Computer Science *GPA: 3.80 / 4.00*

Relevant Coursework: Data Structures and Algorithms, Design and Analysis of Algorithms, Software Engineering, Machine Learning, Operating Systems, Computer Organization, Statistics I/II, Differential Equations, Linear Algebra

Skills

Languages: Python, C++, Java, Go, C, JavaScript/TypeScript, SQL/NoSQL/PostgreSQL, HTML/CSS, R, x86 assembly, Haskell
Frameworks/Tools: Git, Linux/Unix, Node.js, Vite, TailwindCSS, Postman, GCP, Docker, MongoDB, OpenCode, ClaudeCode
Skills: UX/DX, Data Visualization and Analysis, Agile Workflow, ERD, REST API, Technical Design, AI Environments & MCPs
Certifications: ISC2 Certified in Cybersecurity, Unity - Certified User: Programmer

Experience and Leadership

Software Engineering Intern Jun 2026 - Aug 2026
MongoDB *Austin, TX*

- Designed and constructed a **migrator tool** to move **50,000+ triggers from EventBridge to Atlas Streams to provide access to advanced event driven processing capabilities.**
- Integrated a workflow across 3 repos spanning **Java, Go, React, and TypeScript** structures by **mapping EventBridge config contracts** across API layers, mirroring backend models between cloud platform and app services.

LAGraph Dec 2025 – Aug 2026
Undergraduate Research Assistant *College Station, TX*

- Developed and **optimized graph algorithms** using GraphBLAS semirings, including a walking counts algorithm that leverages sparse matrix operations to efficiently enumerate paths in large scale **graphs with 50M+ edges**.
- Packaged complex linear algebra operations into **reusable, production ready modules** that enable researchers and developers to **solve graph problems through API calls**.

Data Science Intern Jul 2024 – Aug 2024
IT Xperts Hub *Houston, TX*

- **Analyzed 50+ asset management databases** and worked with clients in order to design and develop customized features for an Asset Management interface (AMI).
- Generated and **presented 30+ data analysis plots** to **forecast equipment failures** based on historical data, improving predictive maintenance insights using machine learning.

Projects

tamuperiod. | *Next.js, React, TypeScript, Google Sheets API, Tailwind CSS* Sep 2026 – Present

- Designed and programming a web application to provide proximity-based tracking of free menstrual products for **2,000+ students** across Texas A&M campus.
- Structured a **data pipeline connecting Google Sheets API** to client-side Next.js state, consolidating live inventory and sponsor metadata sources from **5+ women's organizations.**

Viasat Customer Mobile App | *React, GraphQL, Swift, Kotlin, Figma* Aug 2026 – Present

- Developing a production-ready mobile MVP translating Viasat's web platform into cross-platform native interfaces, enabling customers to track satellite billing and usage statistics.
- Conducted comprehensive user study A/B testing to drive product iterations and integrated backend GraphQL APIs to deliver reliable, dynamic data states across all dashboard views.

Point-of-Sale System (Web App) | *PostgreSQL, Java, JavaScript, React, Node, Express* Jan 2026

- Created a full stack **POS web app with cashier, kiosk and manager pages**, secured manager access with Google OAuth, and added weather and mobile text ordering APIs that **improved user experience and reduced transaction time by 20%**.
- Delivered a **manager analytics dashboard** with employee, inventory and menu management and automated X/Z reports that provided real time business insights.

RepDex | *JavaScript, Notion API, Google Civic API, Axios* Mar 2025

- Improved **civic accessibility** by designing a frontend in **Notion API** that let users filter and explore contact cards for elected officials, earning **3rd Place at Build4Good 2025**.
- Built a scalable **backend pipeline** in **Node.js** to pull and normalize **3,000+ representative records** from the Google Civic API, implementing image validation and rate limiting to maintain reliable datasets.