

# Abdullah Ali

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## EDUCATION

**George Mason University – GPA: 3.88 / 4.00**

*B.S. Applied Computer Science, Software Engineering Concentration*

**Honors:** Dean's List (Fall 2023 - Spring 2025), Phi Kappa Phi Honors Society

Fairfax, VA

*Expected Dec. 2025*

## EXPERIENCE

**Lead Quality Assurance Tester**

*Al-Islam*

Jun 2025 – Present

*Silver Spring, MD (Remote)*

- **Led a QA team** in testing a portfolio of **4 products** (3 mobile, 1 web), identifying critical bugs and UX improvements.
- Authored and managed comprehensive test plans in **QMetry for JIRA** and served as a lead product demonstrator.

**Software Engineering Intern**

*MapLarge*

May 2025 – Dec 2025

*Atlanta, GA (Remote)*

- Engineered scalable backend services in **TypeScript** using **SQL** to query large-scale geospatial data for dashboard visualizations.
- Rebuilt legacy demo apps and implemented framework-specific modules (Angular, React, Vue, Python) to modernize internal displays.

**Undergraduate Researcher**

*George Mason University*

Sept 2024 – Dec 2025

*Fairfax, VA*

- Applied data mining techniques to analyze government policies on **AI dataset collection** across **9,000+** GitHub repositories.
- Presented research on ethical, open-source data usage to guide national and local AI applications.

**Undergraduate Teaching Assistant**

*George Mason University*

Jan 2024 - Dec 2025

*Fairfax, VA*

- Mentored **300+** students in courses such as Object-Oriented Programming and Software Testing, authoring **3** major assignments and clarifying complex topics including polymorphism, inheritance, and unit testing via office hours.

**Software Intern**

*Techicon Inc.*

Mar 2022 – Sept 2023

*McLean, VA*

- Improved stability of a government compliance auditing platform by debugging the **Python** backend, resolving **15+** critical bugs in the dashboard and POAM (Plan of Action & Milestones) generation features.
- Drove product strategy via competitive analysis; my recommendations for new data visualization features were incorporated into the product roadmap, boosting user engagement by **10%**.

## PROJECTS

**Asterism** | *Node.js, discord.js, SQLite, GraphQL API*

Summer 2025

- Developed and deployed a live Discord bot serving **20+ active users** across **4+ communities**, driving engagement with a modern, slash-command-based UX.
- Architected the backend in **Node.js** to poll the AniList **GraphQL API** for real-time activity, ensuring data persistence and state management across restarts with a **SQLite** database.

**StudyEZ** | *React, MongoDB, Python, Flask, Gemini API*

Spring 2025

- Built a full-stack lecture assistant using **AssemblyAI** and **Gemini API** to automate transcription, summarization, and resource discovery from media, presented via a **React** interface.
- Implemented a RESTful API using **Python** and **Flask** to handle media uploads and serve AI-processed content from a **MongoDB** database, ensuring scalable and flexible data management.

## AWARDS

**Outstanding Teaching Assistant Award** | *George Mason University*

May 2024

## SKILLS

**Languages:** Python, Java, JavaScript, TypeScript, C, Kotlin, HTML/CSS, SQL

**Frameworks & Libraries:** React, Node.js, Flask, JUnit, discord.js

**AI & Machine Learning:** pandas, NumPy, OpenCV, MediaPipe, AssemblyAI, Gemini API

**Developer Tools & Platforms:** Git/GitHub, Docker, JIRA, AWS, SQLite, MongoDB, REST/GraphQL APIs

**Spoken Languages:** English, Urdu, Punjabi, Hindko, Pashto