

# Abdullah Ali

Tysons, VA | 570-397-0319 | U.S. Citizen

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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

**Advisor, Technical Strategy**

*International Board of Ethics in AI*

Aug 2025 – Present

*Pickering, ON (Remote)*

- Informed the technical architecture of a global AI Ethics Assessment API, applying AI research to assess developer roadmaps and validate the feasibility of proposed deliverables.
- Shaped the product roadmap by assessing emerging risks in open-source AI models, and optimized project costs by **saving \$2,000 CAD** on a key development contract through technical vetting.

**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 to modernize internal displays, leveraging **Cesium** for high-performance 3D geospatial visualizations and implementing framework-specific modules (Angular, React, Vue, Python).

**Undergraduate Research Assistant**

*George Mason University*

Sept 2025 – Dec 2025

*Fairfax, VA*

- Utilized **Hopper HPC clusters** to mine Python library changelogs and release notes at scale, creating a comprehensive dataset of code deprecations and updates.
- Benchmarked code from major **LLMs (OpenAI, Claude, Qwen)** against the dataset to quantify the generation of deprecated code and analyze knowledge cutoff effects.

**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.

## 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 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, 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 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, Cesium, discord.js

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

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

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