Abdullah Ali

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EDUCATION

George Mason University – GPA: 3.88 / 4.00   Fairfax, VA
B.S. Applied Computer Science, Software Engineering Concentration   *Expected Dec 2025*
Honors: Dean's List (Fall 2023 - Spring 2025), Phi Kappa Phi Honors Society

EXPERIENCE

Principal Advisor, Technical Strategy   Aug 2025 – Present
International Board of Ethics in AI   *Pickering, ON (Remote)*
- Guided the technical architecture of a global AI Ethics Assessment API, applying AI research to assess developer roadmaps and validate the feasibility of over 5 proposed deliverables.
- Drove 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   Jun 2025 – Present
Al-Islam   *Silver Spring, MD (Remote)*
- Led a QA team in testing a portfolio of 4 products (3 mobile, 1 web), identifying over 20+ critical bugs and proposing 10+ UX improvements.
- Architected comprehensive test plans in QMetry for JIRA covering over 20 test cases and served as a lead product demonstrator.

Undergraduate Research Assistant   Sept 2025 – Dec 2025
George Mason University   *Fairfax, VA*
- Leveraged Hopper HPC clusters to mine the 10 most popular Python libraries' changelogs at scale, creating a dataset of code deprecations.
- Benchmarked code from major LLMs (OpenAI, Claude, Qwen) against the dataset to quantify the generation of deprecated code and analyze knowledge cutoff effects.

Software Engineering Intern   May 2025 – Dec 2025
MapLarge   *Atlanta, GA (Remote)*
- Engineered scalable backend services in TypeScript using SQL to query large-scale geospatial data for dashboard visualizations.
- Rebuilt 4 legacy demo apps to modernize internal displays, leveraging Cesium for high-performance 3D geospatial visualizations and implementing framework-specific modules.

Researcher   Sep 2024 – Dec 2025
George Mason University   *Fairfax, VA*
- Analyzed government AI dataset policies by data mining 9,000+ GitHub repositories in Python, culminating in a research paper on open-source AI regulations submitted to the NIER conference track.

Undergraduate Teaching Assistant   Jan 2024 – Dec 2025
George Mason University   *Fairfax, VA*
- Mentored 700+ 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.

Software Intern   Mar 2022 – Sep 2023
Techicon, Inc.   *McLean, VA*
- Resolved 15+ critical bugs in a government compliance auditing platform, debugging the Python backend and executing stress tests to improve application stability and performance under load.
- Investigated government compliance software trends and presented findings to the product team, directly informing the design and strategic roadmap for 3 new dashboard features.

PROJECTS

Asterism | Discord Link | *Node.js, discord.js, SQLite, GraphQL API*   Summer 2025
- Developed and deployed a live Discord bot for 4+ servers and 20+ users, architecting a Node.js backend with a SQLite database to poll the AniList GraphQL API for real-time activity, boosting engagement by 50%.

StudyEZ | GitHub Link | *React, MongoDB, Python, Flask, Gemini API*   Spring 2025
- Built a full-stack AI lecture assistant with a React frontend and Python/Flask backend, leveraging Gemini API and MongoDB to automate transcription, reducing user study time by an estimated 25%.

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