Abdullah Ali

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EDUCATION

George Mason University — Fairfax, VA
Bachelor of Science in Applied Computer Science, Software Engineering Concentration — *Expected Dec. 2025*
GPA: 3.88/4.00

Honors: Dean's List (Fall 2023, Spring 2024, Fall 2024, Spring 2025), Phi Kappa Phi Honors Society

EXPERIENCE

Software Engineering Intern — May 2025 – Aug 2025
MapLarge — *Atlanta, GA (Remote)*
- Developed scalable backend services in TypeScript to query and process large-scale geospatial datasets using SQL, powering dashboard visualizations.
- Tasked with rebuilding legacy demo applications and implementing framework-specific modules (Angular, React, Vue, Python) to modernize internal displays.

Undergraduate Researcher — Sept 2024 – Present
George Mason University — *Fairfax, VA*
- Analyzed government policies on AI dataset collection and apply data mining techniques to extract insights from over 9000 GitHub repositories.
- Researched and promoted ethical, open-source data usage for national and local AI applications.

Undergraduate Teaching Assistant — Jan 2024 - May 2024, Jan 2025 - May 2025
George Mason University — *Fairfax, VA*
- Mentored 100+ students in core computer science concepts and authored 3 coding assignments on object-oriented programming used by the entire course.
- Hosted office hours and review sessions, clarifying complex programming concepts such as polymorphism, inheritance, and recursion to students with diverse academic backgrounds.

Software Intern — Mar 2022 – Sept 2023
Techicon Inc. — *McLean, VA*
- Resolved over 15 critical system bugs and executed comprehensive stress tests, improving application stability and performance under load.
- Analyzed trends in government compliance software, presenting findings to the product team to inform design improvements and strategic direction.

PROJECTS

StudyEZ | *React, Vite, MongoDB, Python, Flask, Gemini API* — Spring 2025
- Built a full-stack lecture assistant leveraging AssemblyAI and Gemini API to automate transcription, summarization, and resource discovery for uploaded media.

Code Rush | *Java, JavaScript, SQL (MySQL), React, Docker* — Fall 2024
- Crafted a gamified coding platform for real-time, competitive problem-solving to help users enhance coding skills and simulate technical interview scenarios.

Fall Guys | *Python, OpenCV, MediaPipe, Twilio, React, Flask* — Spring 2024
- Developed an innovative fall detection system with a web-hosted front-end, integrating computer vision to analyze camera input and trigger automated emergency SMS alerts via Twilio.

AWARDS

Outstanding Teaching Assistant Award | *George Mason University* — May 2024

SKILLS

Programming Languages: Java, Python, C, JavaScript, TypeScript, Kotlin, HTML/CSS, LaTeX
Databases: SQL (MySQL), MongoDB
Frameworks & Libraries: React, Flask, JUnit, pandas, NumPy, OpenCV, MediaPipe
Developer Tools & Platforms: Git/GitHub, Docker, JIRA, Amazon Web Services (AWS)
Spoken Languages: English (Native), Urdu (Fluent), Punjabi (Understanding), Hindko (Understanding), Pashto (Understanding)