Arjun Giridhar

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Dear Hiring Manager,

My name is Arjun Giridhar, and I am a Summa Cum Laude Computer Science graduate from George Mason University Honors College (B.S., GPA 3.92/4.00) currently completing an accelerated M.S. in Computer Science with a concentration in AI/ML (GPA 3.78/4.00), graduating in May 2026. I am a U.S. citizen authorized to work in the United States without the need for employment-based visa sponsorship. I hold both the AWS Certified AI Practitioner and AWS Certified Cloud Practitioner certifications, reinforcing my commitment to cloud-native development and AI-driven engineering. I am excited to apply for this opportunity because it aligns directly with my software engineering foundation, my graduate focus in AI/ML, and my proven ability to build reliable, scalable systems in cloud environments.

My professional journey began as a Teaching Assistant at George Mason University, a role I held for two and a half years (January 2023 – May 2025). Leading lab sessions in Object-Oriented Programming and Low-Level Programming for classes of 20–25 students deepened my mastery of core computer science principles—data structures, memory management, and software design—while teaching me how to communicate complex ideas clearly. This experience cultivated the mentoring instinct, accountability, and leadership skills that I now bring to every engineering team I join.

Across three internships, I have built a progressively deeper engineering skill set. At the Network Contagion Research Institute, I developed Python-based REST and FastAPI services backed by SQLite and Docker, automating research data pipelines and reducing manual QA cycles through Pytest automation. At Guidehouse, supporting HHS.gov, I gained full-stack experience using Java Spring Boot, React, and SQL, while collaborating closely with stakeholders in Agile teams to deliver federal-scale web applications. These roles gave me a strong foundation in backend development, API design, testing practices, and cross-functional teamwork.

My most impactful experience has been my current role as a Software Engineer Intern at ATPCO, where I have accumulated over a year of hands-on experience in cloud-based development. I build and maintain API-compliant backend services in Rust, including a centralized test archive integrated with Amazon S3 and Secrets Manager for secure storage and retrieval. I analyzed the algorithmic performance of mission-critical airline pricing systems and developed a prototype comparing multiple algorithmic approaches to optimize throughput. Beyond application code, I automate containerized deployments using Docker, Kubernetes, and CI/CD pipelines through Jenkins and GitLab, and have designed deployment architectures incorporating Argo workflows. Most recently, I have been

implementing Infrastructure-as-Code using Terraform and Terragrunt to provision and manage AWS resources—directly reflecting my focus on automated, testable, and reproducible infrastructure.

Through my graduate coursework and applied projects in machine learning, natural language processing, deep learning, and data mining, I have developed a strong understanding of how to take AI/ML prototypes from concept to production. My skills span model evaluation, feature engineering, RAG architectures, LLM integration, and prompt engineering. Combined with my AWS AI Practitioner and Cloud Practitioner certifications and hands-on AWS experience at ATPCO, I am well-positioned to contribute to AI/ML-driven initiatives while ensuring the underlying infrastructure is secure, observable, and scalable.

Across every role, I have consistently demonstrated strong problem-solving skills, attention to detail, and clear communication when working with cross-functional teams. I am enthusiastic about the opportunity to contribute by building and improving software systems, supporting AI/ML initiatives, and delivering secure, scalable engineering practices. Thank you for your time and consideration—I look forward to the opportunity to contribute to your technology initiatives.

Sincerely,
Arjun Giridhar