

KEERTI AISHAM

+1-404-822-1753 — keertiaisham1@gmail.com — linkedin.com/in/keerti-aisham — github.com/keerti3

Education

Georgia State University Masters, Computer Science	Aug 2024 – Dec 2025 GPA: 4.0/4.0
G. Narayanaamma Institute of Technology and Science Bachelor of Technology, Information Technology	June 2018– June 2022 GPA: 4.0/4.0

Experience

Georgia State University Graduate Research/Teaching Assistant	Aug 2024 – Present Atlanta, GA
<ul style="list-style-type: none">Implemented group-aware student-outcome prediction on 10k+ records, as measured by accuracy 85%, by implementing MERF with GroupKFold (by classroom_id) and hyperparameter tuning against Random Forest baselines.Conducted model interpretability and error analyses (feature importance, partial-dependence plots), documented insights for educators, and refined features to catch more at-risk students.Teaching and mentoring over 100+ undergraduate students in <i>Python Programming</i>, delivering lectures, grading assignments, and holding office hours to improve project completion rates.	
Immersive Solutions Software Engineer Intern	May 2025 – Aug 2025 Denver, CO
<ul style="list-style-type: none">Delivered accurate, instruction-following images, measured by 92% accuracy on 1,000+ prompts (human review), by building a GPT-4 + Azure AI Search (RAG) pipeline that writes grounded prompts.Led the migration from LLM fine-tuning to a cost-efficient RAG architecture; redesigned inference workflows, and reduced GPU hours - saving thousands of dollars as verified in Azure Cost Management.	
Micron Technology Software Engineer	Aug 2022 – Aug 2024 India
<ul style="list-style-type: none">Accelerated returned-product root-cause investigations for 100+ engineers (SSD, NAND, NOR, MNAND, DRAM, MCP, HBM), as measured by diagnosis time cut from 4d to 2d, by building automated log ingestion and interactive dashboards.Helped migrate legacy return-handling modules into a microservice-based architecture with Java, deploying services on AWS EC2, storing artifacts on S3, and using Lambda for automation.Optimized backend SQL queries by restructuring joins and indexing critical tables, cutting execution times from 12s to 7s on defect reports and scaling to handle 5,000+ product return records/month.Maintained high availability during releases, as measured by 99.9% uptime, by running Docker services with Kubernetes rolling updates and health checks.Implemented a Kafka monitoring pipeline, reducing critical incidents by 25% and enhancing overall reliability.Received a Bravo Award for quickly ramping up on RMAFast and delivering critical features, including bulk attribute update functionality and contributions to the HBM module.View Recognition	

Apple Project Intern - Apple Maps	Sep 2021 – July 2022 India
<ul style="list-style-type: none">Developed a full-stack web application (React and Java REST API), cutting average API latency by 30% in staging and improving Apple Maps geocoding/route rendering flows.Implemented JWT authentication with secure session handling (refresh), mitigating token replay and unauthorized access.	

Technical Skills

Languages & Frontend:	Python, Go, Java, R, C, C++, JavaScript/TypeScript, Scala, SQL, React.js, Angular, Vue, HTML5, CSS3
Backend & Services:	Spring Boot, FastAPI, Django, Flask, Node.js, Microservices, Kafka, Agent Frameworks (LangGraph)
Data & ML:	scikit-learn, pandas, NumPy, matplotlib; LLMs (GPT-4, multi-LLM integration), RAG, Azure AI Search, Intelligent Metadata, Automation, AI Agents, MCP servers, LangChain, LangGraph, AutoGen, vector search, embeddings, hybrid approaches
Cloud & DevOps:	AWS, Azure(Azure AD, OAuth), Docker, Kubernetes, CI/CD (GitHub Actions, Jenkins)
Databases:	Relational (PostgreSQL, MySQL, SQL Server, Oracle); NoSQL (MongoDB, DynamoDB, Cassandra); Cache (Redis); Warehouses (Snowflake, Redshift, BigQuery)
Distributed Systems:	Multi-tenant Architecture, Control Plane Design, Tenant Isolation, Resource Allocation

Certifications

[AWS - AWS Certified Developer Associate](#) – [Microsoft - Microsoft Azure AI Fundamentals](#)

Publications & Presentations

- Kong, J.E., Myers, J.A., **Aisham, K.**, (2025, October). *Significant predictors of mathematical word problem solving: An exploratory study*. Council for Learning Disabilities (CLD) 47th International Conference on Learning Disabilities, Salt Lake City, UT.

Academics Project

Predictive Modeling for Future Term Associations in Scientific Literature Link	Jan 2025 – May 2025
<ul style="list-style-type: none">Built an AI-driven system in Python using BERTopic + LSTM to analyze thousands of research papers, identifying 50+ emerging trends and predicting future term associations with 87% accuracy.	