

Aneesh Mussim

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TECHNICAL SKILLS / CERTIFICATIONS

Languages:	Python, C#, Java, JavaScript/TypeScript, SQL, PowerShell, Node.js, C, C++
AI / ML / GenAI:	Frontier & Open-Weight LLMs (LLaMA-family, Mistral), Prompt Engineering, RAG, Context Grounding, Embeddings, Semantic Search, Regression, Time-Series Forecasting, Anomaly Detection
Frameworks / Systems:	Flask, React, Angular, .NET, TensorFlow, scikit-learn, FAISS, Ollama, LangChain-style Workflows, REST APIs
Cloud / DevOps:	AWS (Lambda, Kinesis, S3, RDS), Docker, CI/CD, Linux, Git, GitHub
Certifications:	AWS Certified AI Practitioner (2025), Google Analytics (2025), HackerRank Software Developer (2025), HackerRank SQL (2025)

EXPERIENCE

AI/ML Engineer – Insicloud Remote • Chantilly, VA	Jan 2025 – Present
- Developed a monitoring system integrating AI-based image recognition models and sound models for real-time anomaly updates. Improved event detection by 30% using Python, TensorFlow, and OpenCV.	
Web Application Intern – VCU College of Engineering Richmond, VA	Aug 2023 – Dec 2024
- Developed a real-time VCU Bus Transit web application that processed over 1200 route lookups per day , improving transit accessibility for students using React, Flask, and SQL database for data persistence	
Machine Learning Researcher (Capstone) – Capital One Richmond, VA	Nov 2022 – Apr 2023
- Developed fraud telemetry pipelines using AWS Lambda, Kinesis, and Datadog, while improving visibility for unusual transaction patterns by 40% and enabling faster fraud detection.	
- Applied training of scikit-learn anomaly detection models using synthetic threat simulations to improve precision and recall for fraud detection in streaming data.	
Software Development Intern – Bank of America Richmond, VA	Jun 2021 – Oct 2022
- Designed and developed features for a literacy platform on mobile using React Native, Flask, and SQLite to allow real-time dashboards, thereby improving student progress tracking.	
- Partnered with the UI/UX design team using Figma to translate high-fidelity mockups into responsive React components.	

PROJECTS

EchoSentinel – Gunshot Detection Agent Python • TensorFlow • Streamlit • IoT	2025
- Extended a prototype for an ML model utilizing TensorFlow to filter gunshots out of background noise. This combined data from IoT devices and cameras to achieve a 35% cut in instances of false positives.	
Post-Quantum Cryptography Scanner Flask • Python • PowerShell	2025
- Developed Flask microservices to audit SSL/TLS configurations and automate key-store management with the help of PowerShell. These security checks led to the migration of enterprises to quantum-safe encryption.	
LegalAI – Document Intelligence Agent (Dean's Research Fund Awardee) React • Flask • Ollama • FAISS	2025
- Designed and implemented a document intelligence system using frontier open-weight LLMs via Ollama, applying structured prompt engineering, retrieval-augmented generation (RAG), and context grounding to extract, summarize, and answer questions over legal documents with high accuracy and low hallucination rates.	
Smart Bottle Service – Dynamic Pricing and Demand Forecasting Platform Angular • Flask • Python • Machine Learning • SQL	2025
- Built a dynamic pricing platform combining traditional regression-based demand forecasting with prompt-engineered frontier LLMs to contextualize pricing recommendations using event signals, venue metadata, and historical sales, enabling explainable, operator-friendly revenue optimization.	
Fitness Tracker Web App ASP.NET MVC • C# • Entity Framework • SQL Server • HTML/CSS • IIS	2024
- Developed a full-stack ASP.NET MVC web application to track user fitness metrics including workouts, exercise logs, and progress history using C# and MVC architecture.	

EDUCATION

B.S. Computer Science, Virginia Commonwealth University – Dec 2025