

Aneesh Mussim

703-589-0168 • saianeesh01@gmail.com • US Citizen
<https://linkedin.com/in/aneesh-mussim> • <https://saianeesh01.github.io>

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 <i>Remote • Chantilly, VA</i>	Jan 2025 – Present
<ul style="list-style-type: none">- 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.- Trained and validated a Kaggle sound classification dataset and reached 90% model accuracy in Python using TensorFlow and scikit-learn for feature extraction and to optimize the model.	
Web Application Intern — VCU College of Engineering <i>Richmond, VA</i>	Aug 2023 – Dec 2024
<ul style="list-style-type: none">- Developed a real-time VCU Bus Transit web application that processed that processed over 1200 route lookups per day, improving transit accessibility for students using React, Flask, and SQL database for data persistence- Optimized backend performance by refining RESTful API endpoints in Flask, reducing data response latency by 30% and improving real-time synchronization with the React frontend.	
Machine Learning Researcher (Capstone) — Capital One <i>Richmond, VA</i>	Nov 2022 – Apr 2023
<ul style="list-style-type: none">- 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 <i>Richmond, VA</i>	Jun 2021 – Oct 2022
<ul style="list-style-type: none">- 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 <i>Python • TensorFlow • Streamlit • IoT</i>	2025
<ul style="list-style-type: none">- 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 <i>Flask • Python • PowerShell</i>	2025
<ul style="list-style-type: none">- 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) <i>React • Flask • Ollama • FAISS</i>	2025
<ul style="list-style-type: none">- 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 <i>Angular • Flask • Python • Machine Learning • SQL</i>	2025
<ul style="list-style-type: none">- 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 <i>ASP.NET MVC • C# • Entity Framework • SQL Server • HTML/CSS • IIS</i>	2024
<ul style="list-style-type: none">- 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