

# Aneesh Mussim

Chantilly, VA • 703-589-0168 • saianeesh01@gmail.com

<https://linkedin.com/in/aneeshmussim> • <https://saianeesh01.github.io> • <https://github.com/saianeesh01>

## PROFESSIONAL SUMMARY

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AWS-focused AI/ML engineer with **3 years** building GenAI and RAG solutions that ship to production. Expert in **Bedrock** and **SageMaker**—from LoRA/PEFT fine-tuning to high-throughput inference on EKS—and comfortable wrapping LLM workflows in Python or C# micro-services and React front-ends. Known for delivering secure, test-driven code that cuts time-to-value for thousands of users.

## TECHNICAL SKILLS

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**Languages:** TypeScript/JavaScript, Python, Java, C#, SQL

**Frontend:** React 18/Native, Tailwind, CSS-in-JS, Vite, Playwright

**Backend:** Flask, Node.js, Express, Docker, API Gateway, Step Functions, Datadog

**Cloud:** AWS (**Bedrock**, **SageMaker**, Lambda, S3, RDS, EKS/ECS), PostgreSQL, MySQL

**AI/ML:** LangChain & LangGraph, Hugging Face Transformers, **LoRA/PEFT**, RAG, FAISS/OpenSearch, TensorFlow, scikit-learn

**Practices:** Agile, TDD, CI/CD, OWASP reviews, cross-team collaboration

## WORK EXPERIENCE

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### AI/ML Engineer – Insicloud

Jan 2025 – Present

*Remote • Chantilly, VA*

- Shipped a **Bedrock-powered RAG** platform (LangChain + FAISS on SageMaker) answering legal-doc queries in <200 ms p95, automated **LoRA** fine-tuning (**35%** cost reduction), and ran RBAC-encrypted inference on **EKS** at 99.9% uptime – cutting analyst research time by **60%**.

### Teaching Assistant – VCU Computer Science Dept.

Aug 2023 – Dec 2023

*Richmond, VA*

- Led Java labs and code clinics for 60 students, boosting pass rate by **15%**.

### Machine Learning Researcher – Capital One

Aug 2022 – Apr 2023

*Richmond, VA*

- Streamed security telemetry via **Lambda + Kinesis**, raising incident visibility **40%**; tuned anomaly-detection models in scikit-learn/XGBoost.

### Software Development Intern – Bank of America

Mar 2022 – Oct 2022

*Richmond, VA*

- Shipped a React Native literacy app with Flask backend and introduced GitHub Actions CI/CD for automated OTA deploys.

## PROJECTS

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### Court Deadline Tracker (Open Source)

Jan 2024 – Present

*Flask • React • **Bedrock** • LangChain • OpenSearch*

- Parses multi-page court PDFs, stores embeddings in OpenSearch, and serves RAG answers via Bedrock; handles 5k+ docs/month at 75 % lower compute than baseline.
- Exposed REST + WebSocket APIs; containerized with Docker Compose for single-command deploy.

### AI Edge Analytics Pipeline

Jan 2025 – Present

*Python • TensorFlow • AWS IoT Greengrass*

- Performed on-device audio event detection, streaming only critical frames to cloud, reducing bandwidth **80 %**.
- Added post-event generative summarization with Bedrock Titan Text for operator reports.

### Fitness Tracker Mobile App

Aug 2024 – Dec 2024

*React Native • Node.js • MongoDB*

- Built JWT-secured APIs and offline-first data layer; reached 200+ beta users.

## EDUCATION & CERTIFICATIONS

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**B.S. Computer Science**, Virginia Commonwealth University – Dec 2024

**Certifications:** AWS Certified AI Practitioner (2025), AWS Generative AI Engineer – *scheduled Aug 2025*, IBM Big Data 101 (2023), Scrum Fundamentals (2022)