Aneesh Mussim

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PROFESSIONAL SUMMARY

AI/DevOps engineer with 3+ years of hands-on experience in building secure infrastructure, automating system tasks, and streamlining hybrid/cloud operations. Proven track record of collaborating across cross-functional teams to reduce release issues, improve compliance, and deploy data-driven solutions. Comfortable balancing cloud-native workflows with physical deployment logistics. Currently pursuing AWS and Security certifications to expand infrastructure capabilities.

TECHNICAL SKILLS

Core Areas:	AI infrastructure, DevOps automation, secure deployment, system monitoring
Languages:	Python, Java, C, C#, JavaScript/TypeScript, SQL, PowerShell
Frameworks/Tools:	CI/CD pipelines, Infrastructure as Code, Ansible, Docker, Git, GitHub Actions, Redux, Flask, React, React Native, Mocha, Pandas, Firebase, Expo, SQLite, PostgreSQL, scikit-learn, TensorFlow, AWS IoT, Kinesis, ASP.NET MVC
Platforms:	AWS, hybrid/edge deployments, web APIs
Practices:	Agile, TDD, incident response, observability, security reviews

WORK EXPERIENCE

AI/ML Infrastructure Engineer — Insicloud   Jan 2025 – Present
Remote • Chantilly, VA
  – Designed scalable infrastructure for **AI services on edge devices**; reduced delivery cycles by **30%** while ensuring reliable remote deployment.
  – Automated secure configuration and system health logging across distributed Windows environments.
  – Built cryptographically resilient microservice architecture aligned with future encryption standards.
  – Partnered with **cross-functional** AI and security teams to improve delivery efficiency and reduce release issues by **20%**; maintained clear communication with non-technical stakeholders.

Web Application Intern — VCU College of Engineering   Aug 2023 – Dec 2024
Richmond, VA
  – Collaborated with CS faculty and a 4-member team to design and test a real-time **VCU Bus Transit app**; supported **1,200+ daily queries** during pilot.
  – Implemented **Java**-based REST services and optimized a **React** front-end, reducing **API latency by 30%**.
  – Authored **Python**, **PowerShell**, and **Ansible** automation scripts for CI testing and deployment packaging.

Machine Learning Researcher (Capstone) — Capital One   Nov 2022 – Apr 2023
Richmond, VA
  – Built real-time telemetry pipelines using **AWS Lambda**, **Kinesis**, and **Datadog**; improved fraud visibility by **40%**.
  – Tuned **scikit-learn** anomaly models using synthetic threat data; validated outputs in pilot testing.
  – Collaborated on performance benchmarking and logging improvements with infrastructure teams.

Software Development Intern — Bank of America   June 2021 – Oct 2022
Richmond, VA
  – Developed mobile features in **React Native** for a literacy app powered by **Flask** + **SQLite**, enabling offline support.
  – Wrote **PowerShell** scripts for regression checks and QA deployments; reduced **testing time**.
  – Integrated OTA updates via **GitHub Actions** and **Expo**, reducing delivery delays by **60%**.
  – Conducted **API security reviews** and built **Python** test harnesses for **JWT validation**.

PROJECTS

AI Edge Analytics Pipeline   Jan 2025 – Mar 2025
Python · TensorFlow · AWS IoT · PowerShell · Ansible
  – Deployed sound detection pipeline using **TensorFlow Lite** and **AWS IoT Greengrass**; validated on **3+ devices**.
  – Automated inference management and startup with **PowerShell**; provisioned edge nodes using **Ansible**.

Post-Quantum Cryptography Deployment System   Mar 2025 – Apr 2025
PowerShell · Ansible · Python
  – Integrated **SecurityScanner** and **QuantumSecurityAnalyzer** to audit **SSL/TLS** and **DNS** crypto readiness.
  – Scheduled routine scans and hardened Windows key-stores via **PowerShell**; deployed using idempotent **Ansible** playbooks.

Court Proposal Scanner Web App   Apr 2025 – Present
React · Flask · PostgreSQL · PowerShell · Python · Ollama
- Built an **AI-based classification pipeline** for legal documents, reducing **manual review time by 70%**.
- Implemented **automated document handling** and **audit logs** to improve traceability and team collaboration.

Court Deadline Tracker   Apr 2025
React · Flask · PostgreSQL · PowerShell · Ansible
- Extracted deadlines and synced to **Google Calendar** with **automated reminders**.
- Automated backend logging using **PowerShell**; containerized with **Ansible** to reduce task failures.

EDUCATION & CERTIFICATIONS

B.S. Computer Science, Virginia Commonwealth University — Dec 2024
Certifications: AWS Certified AI Practitioner (2025), IBM Big Data 101 (2023), IBM Cloud (2023), Scrum Fundamentals (2022)
In Progress: AWS Solutions Architect – Associate, CompTIA Security+