Aneesh Mussim

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EDUCATION

VIRGINIA COMMONWEALTH
BS in Computer Science
Dec 2024 | Richmond, VA

COURSEWORK

UNDERGRADUATE
Algorithm Analysis with Advanced Data Structures
Operating Systems
Database
Machine Learning
User Interface + User Experience
Data Communication + Networking

SKILLS

PROGRAMMING LANGUAGES
Java • Python • JavaScript • C • C# • PHP • CSS • MySQL

FRAMEWORKS & TOOLS
React • React Native • Flask • Unity • Android Studio • Docker • AWS Cloud • Amazon Bedrock • UI-Path • Jupyter • Figma • GIT CLI • REST API

AI/ML & DATA SCIENCE
TensorFlow • scikit-learn • Pandas • NumPy • OpenAI API • Synthetic Data Vault (SDV) • Amazon SageMaker • Amazon Rekognition • Amazon Comprehend • Amazon Forecast • Amazon Lex • Amazon Polly • Ollama

METHODOLOGIES
Agile • User-Centered Design • User Research

CERTIFICATIONS

TECHNICAL
- AWS Certified AI Practitioner – April 2025
- Agile Software Development – May 2022
- IBM: Big Data 101 – March 2022
- IBM: Introduction to Cloud – March 2022

LINKS
- GitHub

EXPERIENCE

INSICLOUD | AI/ML Intern
Jan 2025 - Present | Chantilly, VA
- Developed and deployed **3+ AI/ML models**, improving data accuracy and readability by over **25%** in client applications.
- Curated and optimized datasets of **50,000+** records to ensure high-quality training, robust model generalization, and improved prediction accuracy.
- Built and implemented an intelligent evaluation pipeline using **agentic AI principles**, automating **90%** of model assessment tasks and accelerating decision-making processes.

CAPITAL ONE | Capstone
August 2022 – April 2023 | Richmond, VA
- Built a real-time data processing pipeline using **Datadog Vector and AWS (S3, Lambda)**, transforming **10,000+** raw cybersecurity audit logs into enriched events, improving observability and incident response visibility by **40%**.
- Applied **NLP, data mining, and Synthetic Data Vault (SDV)** to simulate and analyze complex cybersecurity threat scenarios using synthetic data derived from real-world patterns
- Collaborated in a 4-person team across the full project lifecycle—from synthetic dataset generation to backend integration and application deployment—delivering results on time for internal review.

BANK OF AMERICA | Software Development Intern
March 2022 – October 2023 | Richmond, VA
- Developed and launched a cross-platform mobile app using **React Native** to promote financial literacy among college students, ensuring seamless performance across both iOS and Android platforms.
- Led user interviews and usability testing with **20+ students**, gathering feedback to iteratively improve UI/UX and increase user engagement by **30%**.
- Deployed and maintained the app with a focus on responsive design, accessibility compliance, and cross-device compatibility.

PROJECTS

FITNESS TRACKER APP December 2024
- Developed a full-stack fitness tracker using **React (frontend)** and **Flask (backend)**, integrated with **MySQL** for structured data storage and management.
- Implemented secure, **RESTful API** endpoints enabling real-time user interaction, authentication, and activity tracking.
- Containerized the app with **Docker**, improving portability and deployment efficiency across dev/staging environments.

CLOTHING CONSULTING ROBOT July 2024
- Developed an **automated** clothing recommendation tool using **UIPath RPA**, based on real-time weather data.
- Used browser **automation** and dynamic web scraping to fetch city-specific forecasts.
- Applied rule-based logic to generate personalized, weather-aware outfit suggestions using **AI**-inspired decision flows.
- Delivered a seamless user experience via end-to-end **automation**, reflecting practical **ML/AI** integration.