Ajay Sieunarine

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SUMMARY

Senior Software Developer and Team Lead with 4+ years experience building production data systems and AI/ML applications. Currently leading UN-funded agricultural trading platform development using modern technologies (NextJS, TypeScript, Supabase). Google Cloud Platform certified architect with NVIDIA AI certifications and MSc Data Science background. Proven expertise in team management, enterprise system architecture, and intelligent data processing pipelines.

TECHNICAL SKILLS

Programming Languages: Python, TypeScript, JavaScript, C#, PHP, Java, PowerShell

Modern Frameworks: NextJS, React, Supabase, Drizzle ORM, Flask, Django, .NET 6

AI/ML & Data: RAG Systems, Vector Databases, CUDA Python, Data Pipelines, Machine Learning

Cloud & Infrastructure: Google Cloud Platform, Docker, Linux, Azure, System Architecture

Databases: PostgreSQL, MSSQL, MongoDB, Vector Databases (ChromaDB, FAISS)

EXPERIENCE

Senior Software Developer Sep 2024 – Present
Public Good Studio (PGS) *Trinidad and Tobago*
- Leading web development for AgriConnect: UNCDF-funded agricultural trading platform serving Caribbean farmers and buyers
- Managing complete technical stack independently using NextJS, TypeScript, Supabase, and Drizzle ORM
- Developing Shamrock HSE: environmental monitoring platform with complex calculation engines and Stripe integration
- Sole remaining developer following organizational restructuring, maintaining critical systems during transition

Software Developer (Part-Time) Oct 2023 – Sep 2024
Intelligent Applications Company Limited *Trinidad and Tobago (Remote)*
- Conducted penetration testing and vulnerability assessments for Azure-deployed applications
- Maintained diverse client codebases including Caribbean Sailing Association and cargo manifest systems
- Performed security audits and implemented fixes for enterprise client applications

Full Stack Developer Nov 2022 – May 2023
HR Plus Software *Trinidad and Tobago*
- Developed enterprise features using .NET 6, MySQL, and Telerik UI frameworks
- Built responsive interfaces and applied SCRUM methodology in collaborative environment

Technical Analyst (Intern) Jan 2022 – Nov 2022
Republic Bank Limited *Trinidad and Tobago*
- Developed PowerShell automation achieving 10% efficiency improvement in production banking environment
- Built full-stack ticketing system digitizing manual processes and enhancing workflow
- Managed test environments and databases in regulated financial services environment

Full Stack Developer Aug 2020 – Nov 2021
Adult Literacy Tutors Association *Trinidad and Tobago*
- Maintained codebase and developed features using Git, PHP, JavaScript, CSS, ReactJS

Key Projects

AgriConnect - UN-Funded Agricultural Platform   Sep 2024 – Present
UNCDF Partnership Project   *NextJS, TypeScript, Supabase, FinTech Integration*
- Lead web developer for platform modernizing Caribbean agricultural trade through FinTech solutions
- Implementing secure digital payment systems and real-time market pricing integration
- Building platform connecting farmers with commercial buyers across Caribbean region
- Supporting government digitization initiative with TTIFC and NAMDEVCO partnership

Shamrock HSE - Environmental Monitoring   Sep 2024 – Present
Enterprise Client Project   *NextJS, Stripe, Complex Calculations*
- Developing greenhouse gas emissions monitoring and carbon footprint tracking platform
- Built sophisticated calculation engine processing complex environmental data
- Implemented complete Stripe subscription system with automated billing management

Infrastructure Homelab & Self-Hosting   Ongoing
Personal Learning Project   *Docker, Linux, Networking, Container Orchestration*
- Comprehensive infrastructure supporting multiple containerized applications with automated deployment
- Practical experience essential for deploying and scaling production systems

CinemaTT & PlaylistGuru Applications   Personal Projects
Portfolio Development   *Various Technologies*
- Movie discovery platform for Trinidad (cinematt.net) - comprehensive entertainment database
- Social music curation app (playlistguru.app) - algorithm-driven playlist generation

Education

University of the West Indies   Trinidad and Tobago
M.Sc. Data Science (Thesis Completion Target: 2025)   *2023 – 2025*

University of the West Indies   Trinidad and Tobago
B.Sc. Computer Science (Special) with Honors   *2016 – 2020*

Certifications

NVIDIA: Accelerated Data Science (2025), CUDA Python (2025), RAG Systems (In Progress)

Google Cloud Platform: Professional Cloud Architect (2024-2026)