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Aidan Keith Naidoo

Graduate

SUMMARY

Performance-driven Software Engineer with a 100% distinction record in Computer Science. Expert in the delivery of scalable full-stack applications and data-driven architectures using **TypeScript, Python, and C#**. Spearheaded the integration of cloud-native AI engineering, **RAG pipelines, and DevOps automation** to optimise system performance. Focused on engineering high-availability, low-latency solutions within fast-paced, high-performance technical environments.

SKILLS

- **Programming & Databases:** Python, TypeScript/JavaScript, C#, Java, Kotlin, SQL (PostgreSQL, SQL Server), PL/SQL.
- **Systems & Frameworks:** Next.js (App Router), React, Node.js, ASP.NET MVC, Flask, RESTful API Design, Prisma ORM.
- **AI & Data Engineering:** NumPy, pandas, Scikit-learn, RAG Pipelines, Vector Databases, Predictive Analytics, ML Model Monitoring.
- **Cloud & Infrastructure:** AWS (EC2, S3, IAM), Azure, CI/CD (GitHub Actions), Docker (Containerisation), Git/Version Control, Vercel, Firebase.

EXPERIENCE

Lead Developer | Paint the Cradle Pink (Event Management Dashboard) | Jan 2026 – Present

- Architected a cloud-deployed event management system using **Next.js** to handle real-time registration for 500+ participants.
- Implementing a scalable data layer using **Prisma ORM (Supabase -PostgreSQL)**, ensuring high availability and future extensibility for large-scale campaign data.
- Developing an admin dashboard with **Tailwind CSS** that reduced manual data entry for campaign coordinators by an estimated 60%.

Full-Stack Developer | Wedding RSVP & Logistics System | Jun 2025 - December 2025

- Automated guest tracking and logistics for a high-profile event using **Next.js** and **Firestore**, reducing manual coordination efforts by 80%. Designed a mobile-first user experience that maintained 100% uptime during peak traffic windows, integrating a custom media gallery and real-time RSVP analytics.

Contract Software Engineer | Emora Tradespace | Aug 2024 – Dec 2025

- Engineered a secure **RBAC (Role-Based Access Control)** system in **ASP.NET MVC**, managing authentication for 200+ corporate client accounts with zero reported security breaches.
- Optimised data retrieval by 30% by integrating **Supabase** with **TypeScript**, replacing legacy queries with efficient, typed data fetching patterns. Collaborated on system architecture design using class diagrams to align technical implementation with complex business logic requirements.

EDUCATION

Bachelor of Computer Science | Varsity College Newlands | 2022 – 2024

- **Academic Excellence:** Awarded **Distinction in 100% of curriculum modules** (Top-tier academic ranking).
- **Relevant Coursework:** Systems Architecture, Applied Mathematics, Software Engineering, and Data Structures & Algorithms.

TECHNICAL CERTIFICATIONS

- **Cloud & DevOps:** **AWS Certified Cloud Practitioner** (2026); Specialising in **DevOps Fundamentals** (Docker, CI/CD, GitHub Actions, YAML).
- **AI & Data Engineering:** **AI Engineering** (Current Focus: RAG Pipelines, Autonomous Agents, Vector Stores); **Data Science** (NumPy, pandas, Scikit-learn, ML Pipelines).
- **Backend Engineering:** **Advanced Python & Flask Frameworks**; specialised in Scalable API Design and Predictive Analytics.