

AIDAN KEITH NAIDOO

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EDUCATION & CERTIFICATIONS

Varsity College Newlands	Cape Town, South Africa
<i>Bachelor of Computer Science – Achieved Distinctions in all Curriculum Modules</i>	2022 – 2024
• Relevant Coursework: Data Structures & Algorithms, Systems Architecture, Software Engineering, Applied Mathematics.	
AWS Certified Cloud Practitioner <i>Cloud essentials, Ec2, S3, various aws cloud tools</i>	2026
AI & Data Engineering Track <i>RAG Pipelines, Ai Agents, Vector Stores, ML Pipelines, Scikit-learn</i>	2026
Backend Engineering Specialization <i>Advanced Python, Flask Framework, Scalable API Design</i>	2026

EXPERIENCE

Contract Software Engineer	Aug. 2024 – Dec. 2025
<i>Emora Tradespace</i>	<i>Cape Town, South Africa</i>
• Engineered high-throughput Node.js APIs (TypeScript) and Fine-tuned ASP.NET 4.8 backend services, reducing end-to-end latency by 32% and database query execution times by 40%. • Developed dynamic user interfaces using CSHTML, CSS, and TypeScript, restructuring layout components to improve server-side rendering and initial page delivery speeds by 45%. • Architected automated transactional communication streams via SendGrid, designing robust fallback middleware layers that cut message failures and shortened edge-case debugging cycles by 50%.	
Lead Developer	Jan. 2026 – Present
<i>Paint the Cradle Pink</i>	<i>Cape Town, South Africa</i>
• Built a high-throughput event platform using TypeScript, Next.js, and Prisma ORM to orchestrate real-time schedule, vendor, and ticketing streams for thousands of concurrent participants. • Refactored core backend API routes and engineered custom CAPTCHA verification layers, eliminating 100% of automated spam vectors and ensuring transactional integrity during peak registration spikes.	
Full-Stack Software Engineer (Contract)	Mar. 2026 – Present
<i>Logistics Automation Systems</i>	<i>Cape Town, South Africa</i>
• Orchestrated a modular backend for an enterprise CRM using FastAPI, establishing a decoupled, event-driven pipeline optimized for high-throughput operational and asynchronous workflows. • Integrated AWS S3, Resend, and Sentry to engineer secure document pipelines with comprehensive system observability, reducing production error isolation and debugging cycles.	

PROJECTS

FlexForce Gym Application <i>Android Studio, Kotlin, Firebase, Biometrics</i>	2024
• Built a full-stack Android fitness app utilizing Kotlin and Firebase, enabling users to seamlessly track training sessions and generate customized workouts targeted to specific muscle groups. • Architected scalable backend-to-frontend communication, incorporating device biometric authentication for secure, frictionless access to user workout data.	
ChronoLog Time Tracker <i>Android Studio, SQLite, Firebase, Audio APIs</i>	2024
• Developed a time-tracking Android application with SQLite persistence and Firebase synchronization, providing users with robust productivity analytics and intuitive event management. • Implemented user-centric engagement features, including interactive gamification elements and a dedicated wellness mode featuring custom audio playback to promote sustained focus.	

TECHNICAL SKILLS

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