

DANIEL NAKOLAH

Senior Software Engineer

Nairobi, Kenya | nakolahdaniel1@gmail.com | +254 710 913 540 | [linkedin.com/in/isnakolah](https://www.linkedin.com/in/isnakolah) | github.com/isnakolah

PROFESSIONAL SUMMARY

Senior Software Engineer with 5+ years architecting, building, and scaling distributed backend systems in C#, .NET, and Go. Specializes in modernizing large-scale legacy platforms, designing cloud-native microservices on Azure, and leading engineering teams to ship performant, secure, and maintainable software. Proven, measurable impact — including a 40% reduction in deployment time and a 35% increase in backend service capacity — across enterprise, logistics, and health-tech domains.

CORE SKILLS

Languages: C#, Go, JavaScript, TypeScript, Python, SQL

Backend & APIs: .NET / .NET Core (6/7/8), ASP.NET Core, ASP.NET MVC, RESTful APIs, Microservices, Entity Framework

Cloud & DevOps: Microsoft Azure, Docker, Kubernetes, Azure DevOps, CI/CD Pipelines, Azure Data Factory, Azure Boards

Architecture: Distributed Systems, System Design, Legacy Modernization, Cloud-Native Services, Scalability & High Availability

Security & Data: Identity and Access Management (IAM), Role-Based Access Control (RBAC), JWT, Auth0, SQL Server, SAP Integration, Data Extraction Services (DES)

Practices & Leadership: Technical Leadership, Mentoring, Agile / Scrum, Code Review, Architectural Design, Documentation, Observability, AI-Assisted Development (Claude Code, GitHub Copilot)

PROFESSIONAL EXPERIENCE

Senior Software Engineer May 2024 – Present

Logicea · Nairobi, Kenya

- Led modernization of large-scale legacy enterprise systems in C# and .NET, introducing modular architecture that improved system stability and long-term maintainability.
- Designed and delivered system upgrades and refactors across distributed services, strengthening scalability and reliability under production load.
- Engineered SAP-integrated data workflows and Data Extraction Services (DES), ensuring accurate, reliable enterprise data processing for major pharmaceutical clients.
- Owned end-to-end components within distributed systems, overseeing integration reliability and providing production support for business-critical services.
- Authored and reviewed architectural design documents that guided system evolution and aligned engineering execution with long-term modernization strategy.

Technical Lead May 2023 – May 2024

Tawi Fresh Kenya · Nairobi, Kenya

- Architected and led development of a .NET 6/7 microservices backend deployed on Docker and Kubernetes across Azure VM clusters, achieving high availability for logistics operations.
- Engineered RESTful APIs powering supply-chain and logistics workflows, improving system efficiency by 30% and enabling horizontal scaling.
- Built automated CI/CD pipelines in Azure DevOps, cutting deployment time by 40% and increasing release stability.
- Managed and mentored a team of 5 engineers, introducing coding standards and agile practices that lifted team productivity by 25%.
- Integrated Azure Boards and Confluence to streamline delivery tracking and documentation, raising project visibility and management efficiency by 20%.

Software Developer May 2022 – Jul 2023

FITTS Kenya · Nairobi, Kenya

- Modernized a legacy .NET Framework application to .NET 6, achieving a 50% performance improvement and significantly enhancing maintainability.
- Developed high-throughput ASP.NET Core RESTful APIs, increasing backend service capacity by 35%.
- Optimized database access and API response times by 40% through caching, query tuning, and structured logging.
- Implemented Auth0 and JWT-based authentication, strengthening Identity and Access Management (IAM) and overall application security.
- Integrated Azure Data Factory to streamline data ingestion, reaching 95% data accuracy across analytics workflows.

Software Engineer Feb 2021 – Mar 2022

Ponea Health · Nairobi, Kenya

- Engineered React and TypeScript frontends alongside .NET Core microservices for health-tech applications.
- Built and containerized modular microservices with Docker and Kubernetes, improving scalability by 60%.
- Designed and shipped pharmacy and concierge systems in ASP.NET MVC, reducing operational workload by 40%.
- Developed a custom IAM solution with role-based access control (RBAC) and token-based security, strengthening compliance and user management.
- Sustained a 95% on-time delivery rate through agile discipline, automated testing, and CI validation.

SELECTED PROJECTS

Kikapu — Self-Hosted Platform-as-a-Service (PaaS) *Go · Linux · Distributed Systems*

- Designing and building a self-hosted PaaS that orchestrates application deployment across community-donated Linux compute nodes, featuring a custom trust model, node registration, ingress tunneling, and build pipeline.
- Authored comprehensive architecture documentation spanning the security model, data model (ERD), failure catalog, and a phased delivery roadmap.

DeepSees — Concurrent Download Manager (.NET → Go port) *Go · Concurrency · Terminal UI*

- Ported a queue-processing download manager from .NET to Go, adopting an engine-with-stateless-workers pattern for reliable, high-throughput parallel processing.
- Built a terminal user interface for real-time queue monitoring and control.

EDUCATION

BSc, Electrical and Electronics Engineering Nov 2019 – May 2024

University of Nairobi · Nairobi, Kenya

LANGUAGES

English (Native) · Swahili (Native)