

Wanyama William Achuchi

linkedin.com/in/achuchi

williamachuchi.com

blog.williamachuchi.com (tech blogs)

Email: archywilliams2@gmail.com

Mobile: +254-708-966189

github.com/DeveloperWilliams

x.com/Dev_Williee (technical posts)

PROFESSIONAL SUMMARY

Backend & Systems Architect with 4+ years of experience designing fault-tolerant, scalable platforms across finance, IoT, and enterprise domains. Expert in distributed systems and service-oriented architectures (microservices, event-driven, CQRS). Proven ability to translate complex business requirements into secure, observable, and high-performance backend systems. Skilled in multi-cloud (Azure, AWS) and custom VPS/Linux environments, container orchestration (Kubernetes, Docker), and Infrastructure as Code (Terraform). Adept at leading engineering teams, setting platform roadmaps, and optimizing delivery pipelines (reduced deployment cycles by 40%, achieved 99.9% uptime across critical services). Fullstack experience with React, Node.js, and .NET ensures end-to-end ownership from system design to user-facing delivery.

SKILLS

- **Languages:** JavaScript, TypeScript, Python, C, C#, SQL
- **Frameworks & Platforms:** React, React Native, Node.js, Express, Next.js, GraphQL, ASP.NET Core
- **Databases:** MongoDB, PostgreSQL, MySQL, SQL Server, Redis
- **Architectures:** Microservices, Event-Driven,DDD, CQRS, REST, GraphQL
- **DevOps & Tools:** Git, Docker, Kubernetes (AKS), Helm, GitHub Actions, Jenkins, Terraform, Ansible
- **Cloud:** Azure, AWS, Custom VPS/Linux (DigitalOcean, Hetzner)
- **Observability:** Prometheus, Grafana, Azure Monitor, Application Insights, OpenTelemetry

EDUCATION

- **Africa International University** Nairobi, Kenya
Bachelor of Science in Information Technology

EXPERIENCE

- **Willsoft Technologies (Founder)** Nairobi, Kenya
Founder & Senior Fullstack Architect Jun 2023 – Present
 - **Enterprise Systems Delivery:** Led end-to-end delivery of financial platforms and enterprise apps; production systems processed \$1M+ annually.
 - **Platform Architecture & Scaling:** Architected containerized microservices on AKS and Azure Linux VMs with Terraform and Helm — achieving 99.9% uptime and horizontally scaling to support 30k+ concurrent users.
 - **Cloud DevOps Leadership:** Established IaC practices (Terraform), gitops deployment workflows, and secure secrets management; reduced mean time to recovery (MTTR) by 55%.
 - **Financial Integrations:** Built secure payment and reconciliation pipelines integrated with Stripe and M-Pesa; implemented transaction auditing and replayable event streams.
- **GeoTruth Consult (IoT Project)** Nairobi, Kenya
Mobile IoT Developer (Contract) – ESP32 & Firmware Jan 2025 – Jun 2025
 - **IoT Mobile Applications:** Delivered React Native control app for ESP32 devices with OTA firmware updates and secure authentication.
 - **Embedded Systems:** Wrote C and MicroPython modules for telemetry and device communication over MQTT.
 - **End-to-End Integration:** Built backend ingestion pipelines with dashboards for monitoring device health and data streams (Azure Event Hubs, Stream Analytics).
- **StudyBuddy Africa** Nairobi, Kenya (Hybrid)
Senior Fullstack Developer & Lead Architect Sep 2024 – Jun 2025
 - **Technical Leadership:** Defined cloud-native platform architecture: AKS, API gateway, event-driven processing, and distributed data partitioning.
 - **Scalable Platform Delivery:** Migrated monolith to AKS microservices — cut deployment time by 40% and improved fault isolation via namespaces and pod anti-affinity.
 - **Fintech Integrations:** Implemented payment rails and KYC/AML providers; introduced real-time fraud monitoring and circuit-breaker patterns.
 - **Real-Time Learning Systems:** Introduced GraphQL subscriptions and WebSockets for live course progress, chat, and notifications.

- **GeoTruth Consult** Hybrid / Nairobi, Kenya

Fullstack Web & Backend Engineer Jan 2021 – May 2024

- **Client-Facing Platforms:** Developed responsive web/mobile apps for surveying clients using React, React Native, and Express.
- **Backend Systems:** Designed and optimized REST APIs, Postgres schemas, and reporting pipelines handling millions of rows of geospatial data.
- **Data Engineering:** Built ETL pipelines with monitoring, anomaly detection, and recovery workflows for mission-critical data.
- **DevOps Practices:** Implemented CI/CD with GitHub Actions and Jenkins, containerized services, and standardized deployments to AKS and Azure VMs.

SELECTED PROJECTS

- **Financial Network Marketing Platform (2025):** High-scale fintech networking platform serving 30k+ active users; built with React, Node.js, PostgreSQL, Docker, and AKS. Reduced latency p95 by 30% after query optimization and caching.
- **Fullstack Microfinance Management System (2024):** Microfinance solution supporting loan origination, repayment schedules, KYC/AML flows, and reporting dashboards. Stack: React, .NET, PostgreSQL, Express APIs.
- **Mobile IoT Control App (2025):** Cross-platform React Native app with telemetry, OTA firmware, and dashboards for ESP32-based devices.
- **Inventory Management POS System (2024):** Real-time POS solution with inventory tracking, WebSocket notifications, and financial reporting; supported daily transaction volume of 50k+ items.
- **Real-Time Chat Application (2023):** Socket.io-based platform with private messaging, groups, and notification badges.

DEVOPS & CLOUD EXPERTISE

Deep experience designing and operating multi-cloud and Linux-based production systems. Highlights:

- **Azure:** AKS (Kubernetes), Azure Linux VMs, Functions, App Services, Azure Monitor, Application Insights, Key Vault, VNets, Load Balancers.
- **AWS:** ECS/EKS, Lambda, EC2 autoscaling, S3, RDS, CloudWatch, IAM policies, CloudFormation for infra automation.
- **Custom VPS / Linux:** HAProxy + Nginx load balancing, Docker Swarm Kubernetes on bare metal, Ansible playbooks, Terraform with Hetzner/DigitalOcean, systemd failover scripting.
- **CI/CD:** GitHub Actions, Jenkins, Azure DevOps pipelines, containerized builds, image scanning, automated blue/green canary deployments.
- **Security:** RBAC, IAM, managed identities, Key Vault/Secrets Manager, VPNs, vulnerability scanning, zero-trust network segments.
- **Observability:** Prometheus, Grafana, CloudWatch, Azure Monitor, ELK, OpenTelemetry; proactive SLO/SLA monitoring with automated alerts.
- **SRE Practices:** Error budgets, chaos testing, runbooks, automated incident response, and postmortem culture.

SYSTEM & DEVELOPMENT METRICS (SELECTED)

I instrument systems and development pipelines to produce actionable metrics. Typical KPIs I define and track:

- **Reliability:** Uptime (99.9%+), availability SLOs, error rate ($\leq 0.5\%$ transactions).
- **Performance:** p50/p95/p99 latencies; example target p95 $\leq 300\text{ms}$ for API endpoints.
- **Throughput:** Requests per second (RPS), background job throughput; example stable RPS 1500 with autoscaling rules.
- **Operational:** Mean Time To Detect (MTTD) Mean Time To Recover (MTTR) — targets MTTD ≤ 5 minutes, MTTR ≤ 30 minutes for critical incidents.
- **Delivery:** Deployment frequency (daily to weekly depending on service), lead time for changes ≤ 1 week, change failure rate $\leq 15\%$.
- **Cost Efficiency:** Cloud cost per throughput unit, rightsizing reports, and budget alerts.