

NICHOLAS BIY BWALLEY

“I build intelligent AI agents that automate repetitive processes and boost business productivity”

AI Automations | AI Agents | RAG | MCP | Full-Stack Software Engineer.

Nairobi, Kenya | +254 714 394 332 | nickbiyybwalley@gmail.com

[LinkedIn](#), [GitHub](#)

PROFESSIONAL SUMMARY

I'm **Nick Bwalley**, an **AI Automations Expert and Full-Stack Software Engineer** with over 6 years of experience designing and deploying scalable, intelligent, and compliant digital systems.

I specialize in building **AI Agents and Automation Workflows** that work autonomously systems that **make informed, intelligent decisions**, execute complex tasks, and integrate seamlessly with business tools so organizations can focus on what truly drives growth. With a strong foundation in **software architecture, AI integrations, and cloud technologies**, I help businesses **transform manual processes into self-operating AI ecosystems**. Using a combination of **code-based engineering and low/no-code tools like n8n**, I design automation solutions that **eliminate inefficiencies, cut operational costs, and unlock new revenue streams**. In today's world, **you either embrace AI or risk being replaced by it**. I choose to harness it to empower teams, simplify operations, and scale impact. My mission is to help businesses do the same not just to adapt, but to **thrive** in the AI-driven era.

Let's [connect](#) and explore how intelligent automation can reshape the way your business operates.

CORE TECHNICAL COMPETENCIES

AI Tools & Automations: OpenAI, Claude, Deepseek, Langchain Ecosystem, RAG, MCP, Claude Desktop, Google AI Studio, Prompt Engineering.

Developer Tools: Claude Code, Cursor 2.0, Codex, Lovable, VS Code, Vercel, Docker, Hostinger, GitHub Actions (CI/CD Pipelines), Apache Kafka, Gradio UI, Render, AWS.

My Tech Stack: Next.js, React.js, Node.js, REST APIs, Supabase, MongoDB, MySQL, Pinecone.

Architecture & Scalability: Cloud-Native SaaS Systems, High Availability (HA) Design, Vector Databases, API Integration, Event-Driven Systems, Serverless Functions.

Compliance & Security: SOC 2, GDPR, Secure API Design.

Others: Touch Typist with speeds averaging **120 Words Per Minute (WPM)**

PROFESSIONAL EXPERIENCE

Full Stack Software Engineer & AI Automations | Remote | Mar 2020 – Present

- Delivered 15+ AI-powered web applications for e-commerce, fintech, and real-estate clients, automating workflows, cutting operational costs by up to 40%, and successfully completing over 170 projects. Check it out [here](#).
- Built production-grade AI RAG chatbots with n8n and OpenAI, leveraging Pinecone for semantic search cutting research time by 90% and boosting customer engagement by 40%.
- Developed 2 functional solo SaaS Application [LinguaFlash](#) (lightweight alternative to NotebookLM) and [BlogFlow](#) (AI-powered writing assistant for technical creators), both generating consistent MRR after validation and launch.
- Hired to improve a company's organic traffic by optimizing code for Search Engine Optimization (SEO), reducing Mean Time to Recovery (MTTR) by 45%, and increasing overall web traffic by 65%.

Software Engineer Intern | Turbo G & K Networks Ltd, Nairobi | Jan 2024 – Jun 2024

- Revamped website into a React SPA (MERN Stack), cutting load time by 55% and increasing traffic by 40%.
- Migrated from monolith to microservices architecture, reducing MTTR from 30 mins to under 10 mins.
- Implemented CI/CD pipelines with Docker & GitHub Actions, achieving zero-downtime deployments.

Cybersecurity Analyst Intern | Senselearner Technologies Pvt., Remote | Sep 2023 – Dec 2023

- **Conducted end-to-end security assessments** including network scanning, vulnerability analysis, and penetration testing of web applications, leveraging tools such as OWASP, Metasploitable and Hacksplaining to identify and mitigate **95% of critical threats**, enhance system resilience by **40%**, and deliver comprehensive remediation reports with actionable insights.

EDUCATION

Sustainable Urban Planning and Development (Challenge Driven Education (CDE) project), Exchange Program

KTH Royal Institute of Technology, Stockholm, Sweden | Aug 2024 – Jan 2025

BSc Business Information Technology (First Class Honours, GPA 3.8/4.0)

Strathmore University, Nairobi, Kenya | Sep 2021 – Jun 2024

Diploma in Business Information Technology (Merit)

Strathmore University, Nairobi, Kenya | May 2019 – Sep 2021

PROJECT HIGHLIGHTS

- Led an AI-driven mobility optimization project in Viksjö, Sweden, using advanced machine learning algorithms to generate insights and inform municipal transport efficiency modeling.
- Built two profitable B2C SaaS products, [LinguaFlash](#) and [BlogFlow](#), both generated consistent Monthly Recurring Revenue (MRR) and sold them for a fortune.
- Published a research article called “AI-Powered Customer Churn Predictor” that uses Machine Learning in predicting the probability that a customer in the bank will default and leave the banking services or not based on his usage metrics. Check it out [here](#)

CERTIFICATIONS & ACHIEVEMENTS

- Published Research: AI-Powered Customer Churn Predictor, ReadyTensor (Mar 2025)
- Dean’s List Award Academic Year (2021–2022 & 2022-2023), Strathmore University.
- Certified Transcriptionist (120WPM on average)
- Weightlifter 3rd Place Award, Strathmore Sports Day (Aug 2023)

LANGUAGES

- English (C2 – Native; Both Spoken & Written)
- Swahili (C2 – Native; Both Spoken & Written)
- French (C1 – Working Proficiency; Both Spoken & Written)

HOBBIES

- Fitness Coach
- Professional Swimmer
- Table Tennis
- Pool Games & Bowling
- Speed Cuber & Card Magician.