

# NICHOLAS BIIY BWALLEY

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

**Frontend Developer.**

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

## PROFESSIONAL SUMMARY

I am a Front-End Developer with over six years of experience designing and delivering scalable, high performance, and compliant digital systems. I have a proven track record of building user facing interfaces that balance usability, accessibility, and brand consistency within regulated environments. My expertise includes modern JavaScript frameworks, responsive and cross browser development, and API driven front end architecture. I work effectively within Agile teams, collaborating closely with UI UX designers, backend engineers, and business stakeholders to translate requirements into intuitive digital experiences. I am adept at optimizing applications for speed, scalability, and reliability while adhering to change control procedures, security standards, and quality assurance practices in enterprise and financial services environments.

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

## CORE TECHNICAL COMPETENCIES

### **Frontend Development**

HTML, CSS3, JavaScript, TypeScript, Responsive and Adaptive Design, Cross Browser Compatibility, Accessibility Standards

### **Frameworks and Libraries**

**ReactJS, NextJS, jQuery, Bootstrap, SASS,**

### **Mobile and Hybrid Applications**

Android Studio

### **UI UX and Performance Optimization**

UI Prototyping, User Centered Design Implementation, Performance Tuning, Bundle Optimization, Lazy Loading, Brand Consistency

### **API Consumption and Integration**

RESTful APIs, Asynchronous Requests, AJAX, JSON Data Handling, Client Side Validation

### **Analytics and Optimization**

Google Analytics, Firebase Analytics, UI UX Metrics, User Behavior Analysis

### **Security and Compliance**

Frontend Application Security Controls, Secure API Consumption, Input Validation, Role Based Access Awareness

### **DevOps and Version Control**

Git, CI CD Pipelines, GitHub Actions, Docker assisted workflows

### **Methodologies and Collaboration**

Agile Scrum, Peer Code Reviews, Change Control Processes, Documentation, Vendor Coordination.

**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.