

STEVE ARNOLD OTIENO

Full Stack Software Engineer

Mombasa, Kenya | +254 796 335 895 | stevearnold9e@gmail.com

[linkedin](#) | [github](#) | [gitlab](#)

Professional Summary

Results-driven Full Stack Engineer with expertise in the Node.js and PHP ecosystems.

Demonstrated success in building and deploying high-impact, scalable applications, including a booking engine that increased conversion rates by 30% and a secure multi-tenant invoice system that reduced vulnerabilities by 95%. Passionate about architecting robust backend systems and leveraging agile methodologies to enhance team velocity and deliver exceptional products.

Technical Skills

- **Languages:** JavaScript, TypeScript, PHP, Python, Java, C#, Go
- **Frontend:** React, Next.js, Tailwind CSS, shadcn/ui, Bootstrap, jQuery
- **Backend:** Node.js (NestJS, Express.js, Fastify), PHP (Laravel, CodeIgniter), Python (Django)
- **Databases & Storage:** PostgreSQL, MySQL, MongoDB, Redis, SQLite, Supabase
- **ORMs:** Prisma, TypeORM, Sequelize, Eloquent
- **DevOps & Cloud:** Docker, Docker Compose, Git, CI/CD (GitLab Actions, Jenkins), AWS, Heroku, Render
- **Methodologies & Concepts:** Agile (Scrum, Kanban), RESTful APIs, Microservices, Test-Driven Development (TDD), OWASP Security Principles

Professional Experience

Full Stack Developer | iTravel Holidays (UK-based) | Mombasa, Kenya

March 2024 - Present

- Initially spearheaded the development of a secure, multi-tenant invoice system, engineering a high-availability design with an isolated database architecture to reduce cross-tenant vulnerabilities by 95%.
- Transitioned to the core product team, contributing to the development and enhancement of the main travel platform (itravelholidays.co.uk) and its internal admin systems.

- Key contributions to the platform directly resulted in a **30% increase in conversion rates** and a **25% reduction in booking abandonment**.
- Engineered and optimized RESTful APIs, **improving data flow efficiency between microservices by 45%**.
- Implemented and maintained a comprehensive Stripe payment gateway integration, achieving a **99.8% payment success rate** across thousands of daily transactions.
- Actively participated in the agile process, co-leading bi-weekly sprint planning and retrospectives to **improve team velocity by 25%**.
- **Tech Stack:**, Express, Fastify, NestJS, Next.js, React, TypeScript, CodeIgniter, PHP, MySQL, Docker, Jenkins, Git, Stripe API

Projects

Multi-Tenant E-Commerce Platform (ArtisanBase)

May 2025 - Present

- **GitHub Repo:** github.com/Arnoldsteve/artisan-base
- Developing a scalable e-commerce solution architected with a NestJS backend and two distinct Next.js frontend applications (an admin dashboard and a public-facing storefront).
- **Tech Stack:** NestJS, Next.js, TypeScript, Prisma, Supabase (PostgreSQL), Redis, AWS, Docker, JWT

Online Library Management System

May 2023 - August 2023

- Designed and deployed a comprehensive library management system for over 500 users, featuring role-based access control and managing a database of 10,000+ book records.
- **Tech Stack:** PHP, MySQL, JavaScript, Bootstrap, jQuery

Vanilla JS Weather Application

July 2023

- **Live URL:** weather-app-vanilla-js-mocha.vercel.app
- **GitHub Repo:** github.com/Arnoldsteve/Weather-app-vanilla-js
- Developed a responsive weather application using vanilla JavaScript to demonstrate strong core programming and asynchronous API handling skills.
- **Tech Stack:** Vanilla JavaScript (ES6+), HTML5, CSS3, OpenWeatherMap API
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Education

Technical University of Mombasa (TUM)

September 2020 - August 2024

Bachelor of Science in Computer Science, Second Class Honours

- **Senior Year Project:** Developed a high-performance, multi-tenant invoice system, architecting a secure, isolated database structure that became a core component of a commercial platform.

Languages

- **English:** Professional Working Proficiency
- **Swahili:** Native Proficiency

References

Available upon request.