

# David Makinde-George

Full-Stack Developer | SaaS Builder | AI Integration Specialist

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 David M-G

## Summary

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Full-stack developer with 5+ years of experience building production applications that serve real users. Specialized in Next.js, React, and TypeScript with proven ability to ship end-to-end products—from AI-powered SaaS platforms to enterprise visa systems. Strong focus on performance optimization, security, and user experience.

29 public repositories 13+ live projects 400+ contributions/year

## Education & Certifications

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<b>Bachelor of Science in Computer Science,</b> <i>Bachelor of Science in Computer Science, University of the People</i>	2026 – 2026
<b>Responsive Web Design Certification,</b> <i>Responsive Web Design Certification, freeCodeCamp</i>	2022 – 2022
<b>Google Cybersecurity Professional Certificate,</b> <i>Google Cybersecurity Professional Certificate, Google via Coursera</i>	01/03/2025 – 01/03/2025

## Featured Projects

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### **SwiftPass - Enterprise Visa Application Platform**, *Next.js 14 Supabase Stripe M-Pesa TypeScript*

- Built 8-step visa application wizard serving 100+ countries with real-time tracking and multi-channel notifications
- Implemented client-side passport OCR, reducing form filling time by 78% while maintaining user privacy
- Integrated dual payment system (Stripe + M-Pesa), increasing payment completion by 43% for African users
- Achieved 94 Lighthouse performance score through Server Components and code splitting
- Implemented Row-Level Security in PostgreSQL for multi-tenant data isolation

### **Tundua - AI-Powered EdTech SaaS (Live with Revenue)**, *Next.js 14 OpenAI PostgreSQL Stripe Paystack*

- Built and launched live SaaS platform with paying customers for study abroad guidance
- Integrated OpenAI for automated document generation, reducing consultant workload by 40%
- Implemented Stripe Connect for multi-party payments with automatic 15% platform fee collection
- Built custom document management system saving \$300/year vs third-party solutions

### **Finance Tracker - Production-Grade Personal Finance App**, *Vue 3 Laravel PostgreSQL TypeScript*

- Engineered virtual scrolling handling 10,000+ transactions at 60fps (90% memory reduction)
- Achieved WCAG 2.1 AA accessibility compliance with full keyboard navigation
- Implemented comprehensive security: CSP headers, rate limiting, CSRF protection
- Maintained 78% test coverage with Vitest and Playwright B2B tests

### **Estatia - AI-Powered Real Estate Platform**, *Next.js 15 .NET 8 OpenAI PostgreSQL pgvector*

- Built semantic property search using OpenAI embeddings and pgvector for natural language queries
- Implemented AI-generated property descriptions, reducing listing creation time by 70%
- Achieved sub-100ms API response times through Redis caching and optimized queries

## **Royal Health Consult - Healthcare Booking Platform (Live), React Node.js PostgreSQL TypeScript**

- Developed and deployed live healthcare booking platform for nursing and emergency services
- Built real-time availability calendar eliminating double-booking issues
- Implemented HIPAA-compliant data handling with encrypted patient records

## **Client Work**

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**Delivered 8+ client websites**, across education, hospitality, and energy sectors including MrCream, St. Patrick's Church, StreetNG, and Deusel Consult.

## **Open Source**

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- 29 public repositories on GitHub
- All major projects are open source with full documentation
- 400+ contributions in the past year

## **Frontend**

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- Next.js 14-16, React 19, Vue 3, TypeScript, Tailwind CSS

## **AI/ML**

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- OpenAI API, Embeddings, Semantic Search, Document Generation

## **Payments**

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- Stripe, Paystack, M-Pesa Integration

## **Testing**

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- Vitest, Playwright, React Testing Library

## **Backend**

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- Node.js, Laravel/PHP, .NET 8, RESTful APIs, Server Actions

## **Database**

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- PostgreSQL, Supabase, MongoDB, pgvector, Row-Level Security

## **DevOps**

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- Vercel, Docker, GitHub Actions, CI/CD Pipelines