

Timilehin Ogunnowo

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PROFESSIONAL SUMMARY

Timilehin is a Full-Stack Engineer with strong backend systems expertise, experienced in architecting secure payment infrastructures, ML-powered processing pipelines, and scalable REST API ecosystems. Proven ability to design and deliver production-grade web and mobile applications across Node.js, Python, React, and React Native, with emphasis on reliability, transactional integrity, and performance. He thrives in both corporate and startup settings, bridging frontend and backend to create production-ready solutions that deliver real impact.

PROFESSIONAL EXPERIENCE

SHOPPAY

Fullstack Mobile Engineer

Remote

Dec 2025 - Present

- Designed and deployed a scalable Node.js/Express backend powering an escrow-based e-commerce marketplace with 60+ secured REST endpoints
- Architected a 12-state escrow lifecycle integrating Paystack and Finova APIs, implementing OTP-verified delivery confirmation, automated payouts, dispute resolution, and transactional rollback logic for financial integrity.
- Implemented rate limiting, validation middleware, centralized error handling, logging, webhook verification, and cron-based auto-release mechanisms to ensure production reliability.
- Developed Version 2 of the React Native mobile application, integrating secure API layers for payments, wallet operations, escrow tracking, and real-time order lifecycle management.

STUDIO DORESH

Backend Developer

Remote

Oct 2025 – Jan 2025

- Engineered a production-grade backend for the SpendProfile financial intelligence platform using Python, FastAPI, and PostgreSQL, ensuring reliable ingestion and processing of bank statement data.
- Integrated an end-to-end ML processing pipeline with Celery and Redis, enabling asynchronous PDF ingestion, background analysis, and structured result storage.
- Implemented secure authentication, rate limiting, and robust REST API design to support high-volume uploads while protecting compute-intensive ML workloads.
- Built a scalable Cloudflare R2 storage lifecycle (upload, download, clean up) with transactional safety, retry logic, and comprehensive error handling to maintain system reliability under peak load.

LEADWAY PENSURE PFA

Software Engineer

Lagos, Nigeria

Jun 2024 - Oct 2024

- Enhanced and maintained web applications using React.js and C#, improving UI responsiveness and backend efficiency.
- Upgraded C# applications to the latest version, integrating Swagger UI for superior API documentation and testing.
- Led the development of a statement generation system leveraging SOAP APIs, streamlining backend communication.
- Transformed the Pensure Kiosk App's UI/UX using React.js, resulting in improved functionality and user satisfaction.

UC HUB

Software Developer

Lagos, Nigeria

May 2023 – Jan2024

- Built and scaled an EdTech platform connecting students with peer tutors for affordable, personalized academic sessions.
- Designed and developed full-stack features enabling tutor-student matching, secure authentication, and payment readiness.
- Ensured platform scalability, accessibility, and performance for a growing user base.

LASOP

Volunteer Programming Instructor

Lagos, Nigeria

Mar 2022 - Aug 2022

- Guided trainee developers in coding, debugging, and algorithm design through practical examples.
- Simplified complex programming concepts, enhancing trainees' problem-solving skills and coding confidence.

SELECTED PROJECTS

SHOPPAY

Lagos, Nigeria

Engineer

- Designed and implemented a production-grade escrow payment infrastructure enabling secure marketplace transactions with automated fund holding, OTP-based delivery verification, and structured dispute mediation.
- Built a scalable backend using Node.js, Express, and MongoDB with 60+ REST APIs, integrating Paystack webhooks, Finova wallet services, transactional rollbacks, and cron-driven payout automation.
- Developed the Version 2 mobile application using React Native, integrating secure API layers for payments, wallet operations, escrow tracking, and full order lifecycle management.

MEDICHECK

Lagos, Nigeria

Developer

- Developed an AI-driven drug verification and tracking system designed to combat counterfeit and expired medications
- Built with Next.js, TypeScript, and Hedera Consensus Service for blockchain integration.
- Implemented real-time verification, AI-based validation, and multilingual support to enhance accessibility and trust in drug authentication across healthcare systems and supply chain Nigeria.

LASU HOSTEL COMPLAINT MANAGEMENT SYSTEM

Lagos, Nigeria

Developer

- Developed with Next.js, TypeScript, PostgreSQL + Prisma ORM, Tailwind CSS, and shadcn/ui.
- Reduced lodging issue reporting time by 40% through secure role-based access control and status tracking at Lagos State University.
- Improved mobile responsiveness, leading to a 50% increase in complaint submissions via mobile devices.

EDUCATION

Lagos State University

Lagos, Nigeria

BSc. Computer Science 4.28/5.0

Graduation Date: Sep 2025

Lagos School of Programming *Certified*

Ikeja, Nigeria

Web Developer

Shesfun Comprehensive School

Lagos, Nigeria

School Valedictorian

LEADERSHIP EXPERIENCE

Google Developers Student Club

Nigeria

Member

Jan 2023 – Sep 2025

- Recruited and onboarded 40+ new members, increasing participation in campus tech events by 75%.
- Organized educational events to promote innovation and collaboration in the university tech community.

CORE SKILLS

Skills: Languages: JavaScript, TypeScript, Python, C#, HTML5, CSS3

Frontend: React.js, Next.js, Vue.js, Bootstrap, Tailwind CSS, Shadcn UI, jQuery, Ajax

Backend: Node.js, Express, Django, Django Rest Framework, .NET Framework, Prisma ORM

Mobile: React Native

Databases: PostgreSQL, MySQL, MongoDB, Firebase Realtime DB

APIs: RESTful APIs, SOAP APIs, FastAPIs

Tools: Git/Github, GitLab, Postman, Office365, Swagger UI

Soft Skills: Problem-Solving, Communication, Team Leadership, Critical Thinking, Collaboration