



Emmanuel Seun SHITTU Backend Engineer

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🔗 https://my-portfolio-trj2.vercel.app/

Backend Engineer experienced in designing and scaling secure, production-grade systems using **Node.js**, **TypeScript**, **Express**, and **NestJS**. Strong background building **financial**, **payment**, and **data-driven platforms** with a focus on performance, reliability, and security.

Skilled in developing **RESTful** and **event-driven APIs**, implementing **JWT**, **RBAC**, and **OAuth2 authentication**, and optimizing databases across **PostgreSQL**, **MongoDB**, and **MySQL** with **Redis caching**. Experienced with **CI/CD pipelines**, **automated testing**, **Dockerized environments**, and **cloud deployment**. Passionate about building resilient backend systems that power real-world products.

PROFESSIONAL EXPERIENCE

Backend Developer, Divnerix Innovations

01/2025 – Present

📍 Remote, Nigeria

- Designed and implemented **scalable backend architectures** using **Node.js**, **Express**, **Sequelize**, and **MongoDB**.
- Designed role and organization-based access control systems to support multiple user types and permission levels across shared platforms.
- Built secure **RESTful APIs** for authentication, payments, donations, events, and content management.
- Implemented **JWT authentication**, **RBAC**, and **request validation** to strengthen backend security.
- Optimized API performance using **query optimization**, **Redis caching**, and **asynchronous processing**, improving response time by up to **40%**.
- Wrote **unit and integration tests** with **Jest** and **Supertest**, improving API reliability and reducing regressions.
- Integrated automated testing and builds into **GitHub Actions CI/CD pipelines**.
- Deployed backend services to **AWS** and **Heroku** with zero-downtime strategies.

Key Projects

- Donation Platform:** Multi-payment integration (Paystack, PayPal, Crypto), admin dashboards, RBAC.
- Women of Power Platform:** Event, blog, and donation APIs with MongoDB and Cloudinary.
- Senior Care Platform:** Secure APIs for care plans, reminders, and patient–caregiver communication.

Backend Lead (Volunteer), ScholarGuide (EdTech Startup)

02/2025 – 10/2025

📍 Remote, Nigeria

- Led backend architecture decisions, API structure, and database design while coordinating implementation across core platform modules.
- Developed scalable backend APIs using Node.js, Express, and MongoDB (Mongoose).
- Implemented CRUD for courses, user profiles, and gamification modules (points, badges, leaderboards).
- Implemented JWT authentication and backend-enforced role-based access control across multiple user groups, ensuring strict permission boundaries between platform roles.
- Structured backend logic to separate organization-level data and user permissions, aligning with multi-tenant SaaS architecture principles.
- Optimized API performance with caching and rate limiting.
- Documented APIs using **Swagger** and improved API stability through query optimization.

Backend Developer (Volunteer), Ed3Hub – Web3-Enabled Learning Platform

12/2024 – 08/2025

📍 Remote, Nigeria

- Built polyglot backend architecture with PostgreSQL, MySQL, and MongoDB.
- Designed relational database schemas in PostgreSQL to support structured user data, permissions, and scalable feature growth.
- Integrated Redis caching and Elasticsearch for search/recommendation features.
- Developed NFT certification endpoints and token-based gamification.
- Achieved **75% faster query response time** and boosted early user engagement by **35%**.

Backend Developer(Contract), Groovinx / SkyeStudio Project  Remote

10/2024 – 12/2024

Remote

Social Media Analytics & Content Automation Platform

Node.js, Express, MongoDB | 10/2024 – 12/2024

- Built content scheduling, video rendering, analytics pipelines using **FFMPEG, Facebook Graph API, FabricJS**.
- Improved backend performance and reduced latency with optimized data flow

Backend Development Intern, CareerEx

06/2024 – 12/2024

Remote

- Applied advanced **Node.js & Express skills** in fintech and e-commerce projects.
- Built RESTful APIs with Node.js, worked with SQL databases, integrated Paystack & PayPal, and implemented structured error handling and Agile workflows.
- Contributed to sprint planning, reviews, and production deployments

Backend Developer, In-box Elite (Merchandising Company)

02/2023 – 12/2023

Benin, Nigeria

- Built backend services with Node.js, Express, Sequelize (MySQL) for products, orders, and inventory.
- Centralized business logic in backend services to reduce frontend complexity, improve security, and maintainability.
- Implemented authentication, input validation, and error handling middleware.
- Improved API response time by **30%** and automated workflows by **40%**.

Full Stack Developer (Bootcamp Trainee and Intern),

03/2022 – 12/2022

Benin, Nigeria

EdoJobs Tech Bootcamp – Full Stack Development Track

- Built **responsive web interfaces** using React.js, HTML, CSS.
- Developed **backend functionality** with Node.js & Express (CRUD, routing, database integration).
- Integrated frontend with backend APIs for dynamic content.
- Collaborated on projects cloning modern web apps (YouTube, dashboards).
- Deployed full-stack projects to **Netlify & Vercel**.

Key Achievement: Built **7+ full-stack projects**, demonstrating end-to-end development skills.

EDUCATION

University of Benin , Bsc/Finance

10/2018

Benin City, Edo State,
Nigeria

Abraham Adesanya Polytechnic , National Diploma

11/2007 – 06/2010

Ijebu Igbo, Ogun State,
Nigeria

SKILLS

Backend: Node.js, Express.js, NestJS, TypeScript, JavaScript (ES6+), REST APIs, Microservices, Event-Driven Architecture

Databases: PostgreSQL, MySQL, MongoDB (Mongoose), Redis, Query Optimization, Data Modeling

Security: JWT Authentication, Role-Based Access Control (RBAC), OAuth2, Rate Limiting, Secure API Design

DevOps & Cloud: Docker, GitHub Actions (CI/CD), AWS, Render, Heroku, PM2

Testing: Jest, Supertest, Unit & Integration Testing

Tools & Docs: Swagger (OpenAPI), Postman, Insomnia, Git, Agile/Scrum

Frontend: React, Next.js, TypeScript, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS

PROJECTS

- **Payment Parser & Executor API**

Node.js • Layered Architecture • Custom Validator DSL • Structured Logging

Built a financial transaction processing API that parses human-readable payment instructions, validates account balances and currencies, and executes debit/credit operations using a clean layered architecture (Endpoint → Service → Repository). Implemented structured validation, centralized error handling, and standardized transaction responses.

GitHub: <https://github.com/shem4soul/payment-parser-executor-API> 

- ◆ **School Management System API** ☀

Node.js • Express.js • MongoDB • JWT

Developed a RESTful backend API managing school entities with role-based access control, secure JWT authentication, and CRUD operations for students, teachers, programs, exams, and more.

GitHub: <https://github.com/shem4soul/school-management-system-API> ☀

- ◆ **Banking API (Wallets & Virtual Cards)** ☀

NestJS • PostgreSQL • Docker • CQRS

Built a secure fintech backend supporting wallet management, virtual cards, and transaction processing using an event-driven architecture. Implemented structured domain logic with CQRS and optimized financial data handling for reliability and scalability. **GitHub:** <https://github.com/shem4soul/banking-api> ☀

- ◆ **Payroll System with Monnify**

Node.js • PostgreSQL • Redis • Bull Queue Developed a payroll processing system enabling bulk salary disbursement, webhook-based payment reconciliation, and asynchronous job processing with Redis queues. Designed the system to ensure reliable financial transactions and background processing at scale. **GitHub:** <https://github.com/shem4soul/Monnify-Payroll-System> ☀

- ◆ **E-commerce Backend (SQL)**

Node.js • Express • MySQL (Sequelize) • Cloudinary • SMTP Developed a scalable e-commerce backend API using MySQL with Sequelize for structured relational data. Built secure user authentication, product and order management, image uploads, and email notifications, focusing on clean RESTful design and optimized database querying.

GitHub: <https://github.com/shem4soul/Ecommerce-with-SQL> ☀

- ◆ **Jobster API** ☀

Node.js • Express • MongoDB • JWT Created a job listing and application management API with secure authentication, candidate tracking, filtering, and pagination. Focused on clean REST API design and scalable data handling for job board workflows. **GitHub:** <https://github.com/shem4soul/Jobster-API> ☀

- ◆ **Social Network Blog Backend** ☀

Node.js • Express • MongoDB • JWT Developed the backend for a social network blog platform with user authentication, post creation, commenting, and interaction tracking. Implemented secure token-based authentication and role-based access to support content creation and engagement. **GitHub:** <https://github.com/shem4soul/social-network-blog-backend> ☀

CERTIFICATES

Backend Development (NodeJs) – CareerEX • Python and Statistics for Financial Analysis ☀ •

Foundations: Data, Data, Everywhere ☀

REFERENCES

Available upon request