



Emmanuel Seun SHITTU *Backend Developer*

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🐙 github.com/shem4soul 🔗 <https://my-portfolio-trj2.vercel.app/>

Profile

Backend Developer with strong experience designing, building, testing, and deploying **scalable and secure backend systems** using **Node.js, Express.js, TypeScript, and NestJS**. Skilled in developing **RESTful and microservices-based APIs**, implementing **authentication and authorization (JWT, RBAC, OAuth2)**, and optimizing performance across **MongoDB, MySQL, and PostgreSQL**.

Experienced in **unit and integration testing (Jest, Supertest)** and integrating automated tests into **CI/CD pipelines (GitHub Actions)** to ensure reliable, production-ready deployments. Passionate about clean architecture, modular backend design, and building systems that scale.

Professional Experience

Backend Developer

01/2025 – Present | 📍 Remote, Nigeria

Divnerix Innovations 🌐

- Designed and implemented **scalable backend architectures** using **Node.js, Express, Sequelize, and MongoDB**.
- 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 Developer (Volunteer)

02/2025 – 10/2025 | 📍 Remote, Nigeria

ScholarGuide (EdTech Startup)

- Developed scalable backend APIs using Node.js, Express, and MongoDB (Mongoose).
- Implemented CRUD for courses, user profiles, and gamification modules (points, badges, leaderboards).
- Applied **JWT-based authentication** and **role-based access** for Admin, Teacher, Parent, and Student users.
- Optimized API performance with caching and rate limiting.
- Documented APIs using **Swagger** and improved API stability through query optimization.

Backend Developer (Volunteer)

12/2024 – 08/2025 | 📍 Remote, Nigeria

Ed3Hub – Web3-Enabled Learning Platform 🌐

- Built polyglot backend architecture with PostgreSQL, MySQL, and MongoDB.
- 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%**.

Full Stack Developer (Bootcamp Trainee / 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.

Backend Development Intern

06/2024 – 12/2024 | Remote

CareerEx

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

Backend Developer

02/2023 – 12/2023

In-box Elite (Merchandising Company)

- Built backend services with Node.js, Express, Sequelize (MySQL) for products, orders, and inventory.
- Implemented authentication, input validation, and error handling middleware.
- Improved API response time by **30%** and automated workflows by **40%**.

Backend Developer(Contract) Social Media Analytics & Content

10/2024 – 12/2024 | Remote

Automation Platform

Groovinx / SkyeStudio Project  Remote

Groovinx / SkyeStudio (Social Media Analytics & Automation): 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

Education

Bsc/Finance

10/2018 | Benin City, Edo State, Nigeria

University of Benin 

National Diploma

11/2007 – 06/2010

Abraham Adesanya Polytechnic  Ijebu Igbo, Ogun State, Nigeria

Skills

Backend & Architecture — Node.js, Express.js, NestJS | JavaScript (ES6+), TypeScript | RESTful APIs & Microservices Architecture | MVC & Modular Architecture | Event-Driven & Asynchronous Processing

Security & Authentication — JWT Authentication | Role-Based Access Control (RBAC) | OAuth2 | Rate Limiting | Secure API Design & Input Validation

Databases & Caching — MongoDB (Mongoose) | MySQL & PostgreSQL (Sequelize) | Redis (Caching) | Query Optimization & Indexing | Transactions & Data Modeling

Testing & Quality Assurance — Unit Testing – **Jest** | Integration & API Testing – **Supertest** | Mocha & Chai (basic) | Mocking, Spies & Dependency Isolation | Regression Testing | Test Automation in CI/CD Pipelines

DevOps & CI/CD — Git & GitHub | GitHub Actions (CI/CD Pipelines) | Docker | PM2 | AWS, Render, Heroku | Deployment Automation & Monitoring

Documentation & Tools — Swagger (OpenAPI) | Postman, Insomnia | Agile / Scrum

Frontend — • React • Next.js • TypeScript • JavaScript (ES6+) • HTML5 • CSS3 • Tailwind CSS • Bootstrap • Redux • Context API • Responsive UI/UX • Figma

Projects

Payroll System with Monnify – Node.js, Express, PostgreSQL, Redis

Overview: Fully-featured payroll system integrating Monnify for bulk disbursements and real-time reconciliation.

Key Responsibilities & Achievements:

- Configured **Docker** for PostgreSQL and Redis; initialized Node.js project with TypeScript.
- Created **Employee model** with auto-generated IDs and CRUD operations.
- Managed payroll lifecycle with **Payroll and PayrollItem entities**; reconciled payments.
- Integrated **Monnify API** for authentication, OTP-based bulk transfers, transaction lookup, and wallet balance checks.
- Set up **Bull queue with Redis** for asynchronous payroll processing and background jobs.
- Developed secure API endpoints (**Employee & Payroll Controllers**) with JWT and role-based access.
- Configured webhook handlers for Monnify updates and tested end-to-end functionality.

Impact: Enabled **real-time payroll processing** for multiple employees, reducing manual intervention and improving reconciliation accuracy.

Other Notable Projects:

- **Banking API (Wallets & Virtual Cards)** – NestJS, PostgreSQL, Docker, CQRS

Built secure wallet and virtual card management backend with event-driven architecture.

- **School Management System API** – Node.js, Express, MongoDB, JWT

Developed CRUD operations for students, teachers, exams, and academic terms with role-based access.

- **E-commerce Backend API** – Node.js, Express, MongoDB, Cloudinary, SMTP

Implemented product, order, and user management APIs with image upload and email notifications.

- **Job Backend API** – Node.js, Express, MongoDB, JWT

Developed secure job listing and applicant tracking APIs with filtering, pagination, and role-based access.

- **Social Network Blog Platform** – Node.js, Express, MongoDB, React.js

Built full-stack social platform with posts, comments, likes, and user authentication.

- **Space Invader Game** – JavaScript, HTML5, CSS3

Developed a browser-based game with player controls, enemy waves, scoring, and responsive design.

Certificates

- Backend Development (NodeJs) – CareerEX
- Python and Statistics for Financial Analysis [↗](#)
- Foundations: Data, Data, Everywhere [↗](#)

References

Available upon request

Portfolio

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

<https://github.com/shem4soul/banking-api> [↗](#)

- **Payroll System with Monnify**

<https://github.com/shem4soul/payroll-system> [↗](#)

- **Space Invader Game**

<https://shittu-space-invader-game.netlify.app/> [↗](#)

<https://github.com/shem4soul/space-invader> [↗](#)

- **School Management System API**

<https://github.com/shem4soul/school-api> [↗](#)

- **Social Network Blog Platform**

<https://github.com/shem4soul/social-blog> [↗](#)