



# Emmanuel Seun SHITTU Backend Developer

✉️ shem4soul@gmail.com ☎️ 08131483479, 08055992911

linkedin.com/in/emmanuel-shittu-91573915a 🌐 github.com/shem4soul

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

**Backend Engineer and Backend Lead** with strong experience designing, architecting, and scaling secure backend systems using **Node.js, TypeScript, Express.js, and NestJS**. Proven track record of leading backend architecture, defining API structures, and building modular, maintainable systems that support growing products and teams.

Skilled in developing **RESTful and event-driven APIs**, implementing robust **authentication and authorization systems (JWT, RBAC, OAuth2)**, and optimizing performance across **PostgreSQL, MySQL, and MongoDB**, with Redis for caching and real-time workloads. Experienced in designing systems for scalability, reliability, and clear separation of concerns.

Strong advocate of **clean architecture, documentation, and engineering standards**, with hands-on experience leading backend modules, mentoring developers, and collaborating closely with frontend and product teams to deliver well-structured, production-ready features.

Experienced in **unit and integration testing (Jest, Supertest)** and integrating automated tests into **CI/CD pipelines (GitHub Actions)** to ensure stable and reliable deployments.

Passionate about building backend foundations that are secure, scalable, and easy for teams to build on long term.

## PROFESSIONAL EXPERIENCE

### Backend Developer, 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.

01/2025 – Present

📍 Remote, Nigeria

### 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).
- 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), Ed3Hub – Web3-Enabled Learning Platform ⚡

12/2024 – 08/2025

📍 Remote, Nigeria

- 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), EdoJobs Tech Bootcamp – Full Stack Development Track**

03/2022 – 12/2022  
Benin, Nigeria

- 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, CareerEx**

06/2024 – 12/2024  
Remote

- 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, In-box Elite (Merchandising Company)**

02/2023 – 12/2023

- 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 Automation Platform,**

10/2024 – 12/2024  
Remote

*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**

### **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 & 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> ↗