

OMOSEFUNMI SAMUEL AYOBAMI

Software Engineer • Full-Stack • AI Integration

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PROFESSIONAL SUMMARY

Software Engineer with 2+ years of hands-on experience building secure, scalable full-stack applications. Proficient in Java, Spring Boot, and Spring Security for robust backend systems, with strong frontend skills in React and TypeScript. Experienced in JWT authentication, RESTful API design, and AI-powered feature integration using the Anthropic Claude API. Adept at prompt engineering for production-grade AI workflows. Open to remote opportunities with global teams.

TECHNICAL SKILLS

Languages	Java, JavaScript, TypeScript, Python
Backend	Spring Boot, Spring Security, REST API, JWT, JUnit
Frontend	React, Redux Toolkit (RTK Query), HTML, CSS, Tailwind CSS
Databases	MySQL, PostgreSQL, MongoDB
AI & Prompts	Anthropic Claude API, Prompt Engineering
Tools	Git, GitHub, Maven, Postman, Cloudinary
Concepts	OOP, MVC Architecture, Authentication & Authorization

PROJECTS

Budgr – Personal Finance App *React · Spring Boot · MongoDB · Spring Security*

Full-stack personal finance application with real-time budget reporting and secure session-based authentication.

- Built a live budget report engine with DRAFT → ACTIVE → COMPLETED status lifecycle
- Implemented session-based auth with Spring Security, SecurityContext persistence, and cookie configuration
- Designed embedded transaction documents in MongoDB with strict validation and status transitions
- Resolved complex Spring Security debugging including ProtectedRoute loading states and 403 error flows
- Built responsive React frontend with TypeScript, protected routes, and real-time budget dashboards

Hotel Management System *Spring Boot · MySQL · Cloudinary · JWT · JavaMailSender*

Full-featured hotel operations backend with automated scheduling, image management, and async email notifications.

- Implemented JWT authentication with role-based access control (admin, staff, guest)
- Integrated Cloudinary for hotel room image upload, storage, and retrieval
- Built async email notification system using JavaMailSender for booking confirmations
- Developed a no-show scheduler using Spring's @Scheduled for automated reservation management
- Structured a clean 60+ file codebase following Controller–Service–Repository layered architecture

Secure Authentication System *Spring Boot · Spring Security · JWT · MySQL · JUnit*

- Implemented JWT-based authentication with OTP verification and BCrypt password encryption
- Designed RESTful APIs for registration, login, and account validation workflows
- Applied unit testing with JUnit to validate authentication logic and edge cases

School Management System API *Spring Boot · Spring Security · MySQL · REST APIs*

- Designed REST APIs for student and system management with full CRUD operations
- Implemented role-based authorization using Spring Security and BCrypt credential protection
- Added JUnit tests to validate business logic and API endpoint functionality

EDUCATION

Software Engineering Program | Semicolon Africa

2025 – Present

Intensive full-stack engineering program covering Java, Spring Boot, React, databases, and software architecture.

National Diploma – Computer Science | Grace Polytechnic

2023 – 2025

Foundations in programming, OOP, data structures, and software development.

KEY STRENGTHS

Backend API Development	Java, Spring Boot, REST API design and integration
Secure Auth Systems	Spring Security, JWT, session management, BCrypt
AI Integration & Prompting	Claude API, prompt engineering for production workflows
Frontend Development	React, TypeScript, Redux Toolkit (RTK Query)
Database Design	MySQL, PostgreSQL, MongoDB (relational + document)
Test-Driven Development	JUnit unit testing, validation-first approach

ADDITIONAL INFORMATION

Work Preference: Open to Remote Opportunities (Global)

Location: Lagos, Nigeria

Languages: English (Fluent)