

# Kingsley Ndzi Bungong

**Entry-level Software Engineer with a strong backend focus**, experienced in designing and building secure REST APIs, authentication systems, and full-stack web applications. Proficient in Java and Spring Boot, with hands-on experience across databases, cloud deployment, and API testing. Comfortable working across the full development lifecycle, from requirements to deployment, and motivated to grow within a collaborative engineering team.

## PERSONAL DETAILS

 [kingsleyndzibungong.co.uk](http://kingsleyndzibungong.co.uk) | GitHub: [bungongtoto](https://github.com/bungongtoto) | LinkedIn: [kingsley-ndzi-bungong](https://www.linkedin.com/in/kingsley-ndzi-bungong/)

## TECHNICAL SKILLS:

- **Languages & Frameworks**  
Java, Spring Boot (Security, JPA), Node.js, Express, React, TypeScript, JavaScript  
Object-Oriented Programming (OOP), MVC
- **APIs & Backend**  
REST APIs, JWT authentication, OpenAPI / Swagger, Service-to-Service Communication
- **Databases**  
PostgreSQL, MySQL, MongoDB, H2, JDBC
- **Testing & Engineering Practices**  
JUnit, Spring Test, Jest, REST API testing (Postman), Agile / Scrum, SDLC, Code Reviews, CI fundamentals
- **Cloud & Tools**  
AWS (EC2, RDS, S3, SES), Render, Git, GitHub

## PROJECTS:

- **Two-Factor Authentication Service ( Java, Spring Boot / Cloud / security, JWT, PostgreSQL, OpenFeign)**
  - Designed using object oriented principles and implemented a backend authentication service supporting password-based login with email verification codes.
  - Implemented time-limited verification challenges with expiry and attempt limits.
  - Built JWT-based access and refresh token flows for secure session management.
  - Integrated with a notification service via REST APIs to deliver verification emails.
  - Persisted authentication challenges in PostgreSQL and validated flows using logs and database queries.
  - Tested API behaviour and edge cases using Postman and JUnit / Spring Test
- **Notification Engine ( Java, Spring Boot, PostgreSQL, Thymeleaf, AWS Simple Mail Service)**
  - Designed and implemented a backend service for generating and sending transactional emails.
  - Built REST endpoints to trigger email delivery based on application events and user preferences.
  - Created dynamic HTML email templates using Thymeleaf.
  - Persisted delivery attempts and statuses in PostgreSQL to support traceability and debugging.
  - Added basic retry handling for failed email sends and validated API inputs.
  - Deployed the service to AWS and integrated with Simple Email Service (SES).
- **Full Stack Ecommerce Website (PostgreSQL, React, Node JS, Express JS, Stripe API)**

- Built a full-stack e-commerce application with product management and user authentication.
- Designed and implemented REST APIs using Node.js and Express.
- Integrated Stripe to handle secure payment processing.
- Implemented input validation and basic security measures on backend endpoints.
- Developed a React frontend consuming backend APIs and handling user interactions.

- **AI Tutor Web App Final Year Project (MongoDB, React, Node JS, Express JS, OpenAI)**
  - Built a full-stack tutoring platform with role-based access for students and administrators.
  - Designed and implemented REST APIs to manage users and tutoring workflows.
  - Implemented authentication and authorization for protected resources.
  - Integrated AI-powered features for question answering and concept explanations.
  - Deployed the system with a clear separation between frontend and backend services.

#### **CAREER HISTORY:**

##### **Nov 2024 – Oct 2025 | IT Career Switch | Junior Full-Stack Developer (Training & Project-Based Experience)**

- Built backend services using Java and Spring Boot and frontend features using React and TypeScript.
- Designed, implemented, and tested REST APIs with authentication and database integration.
- Investigated issues by reviewing logs, testing API endpoints, and validating database records.
- Deployed applications to AWS and Render and managed code using Git and pull requests.
- Worked within agile workflows and code review practices.

##### **June 2024 – Dec 2024 | Fondation Bilingue Marguerite Marquez | Freelance Full Stack Developer**

- Worked with stakeholders to gather requirements for a school management system.
- Developed backend services using Node.js and Express with a React frontend.
- Implemented authentication and REST APIs for administrative workflows.
- Delivered a maintainable solution aligned with user needs.
- Improved student registration and fee payment processing time by approximately 70% by digitising workflows and reducing manual steps.

##### **April 2024 – June 2024 | Camtel Cameroon | Software Development Engineer Intern**

- Contributed to Java-based applications using Java EE, JDBC, JPA, and Hibernate.
- Worked with SOAP APIs and tested services using SOAP UI.
- Assisted in building web interfaces using HTML, CSS, and PrimeFaces.
- Gained exposure to enterprise development processes and SDLC practices.

#### **EDUCATION:**

- **BSc Computer Science** — ICT University, Cameroon, 2024  
GPA: 3.56
- **Junior Amazon Software Engineer Career Certificate** — Coursera, 2025