

GIAN SANDROVA

INFORMATICS ENGINEERING

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SUMMARY

I am a final-year student of Informatics Engineering. I possess full-stack application development expertise and a special interest in artificial intelligence innovation. I have extensive experience in building web applications from start to finish, covering both the interactive Frontend side and the robust Backend side (building RESTful APIs and managing databases). I have successfully completed a thesis project involving the development of a Retrieval-Augmented Generation (RAG)-based intelligent chatbot. This project demonstrated my proficiency in integrating modern AI solutions into software products. I am seeking a role as a software engineer where I can utilize a full spectrum of technical expertise to build functional, efficient, and innovative products.

PROFESSIONAL EXPERIENCE

Fullstack Developer Intern, PT Bigs Integrasi Teknologi

Jun 2024 - Oct 2024

- Developed Doctor Appointment application from start to finish using Next.js (frontend) and Yii2 (backend)
- Designed and implemented a scalable multi-tenant architecture to support multiple clinics/hospitals with a single codebase.
- Implemented Progressive Web App (PWA) to improve UX and ensure application availability even in limited internet conditions.

PROJECTS

Intelligent Chatbot Development with Graph RAG Architecture

Jan 2025 - Jun 2025

- Design and build a chatbot based on Graph RAG, resulting in more accurate and contextualized responses than standard RAG.
- Conducted embedding and LLM research, selecting gte-qwen2-7b as the optimal model for layered information needs.
- Designed Neo4j graph database schema to model knowledge and enable complex multi-hop retrieval.
- etc

Student Attendance Application Backend System

Jun 2025

- Design and develop RESTful API-based backend system for student attendance application with real-time authentication and dashboard.
- Implement Spring Security & JWT for role-based authentication (ADMIN and STUDENT).
- Integrate WebSocket to send real-time notifications to the admin dashboard every time a check-in occurs.
- Built MySQL database schema, CRUD endpoints, as well as student check-in validation features and testing with JUnit 5, etc.

CV Generator Website

Sep 2023 - Dec 2023

- Developed a web application to manage identity data, education, experience, skills, etc., and display them in the form of landing pages and ATS-friendly CVs.
- Built CRUD features on several user data modules and designed landing page templates and CV views that can be downloaded as PDFs.
- Performed API testing with Postman and blackbox testing to ensure the functionality is running according to requirements.
- Successfully built a fullstack flow from data input to CV PDF generation in an automated and responsive manner.

SKILLS

Languages: JavaScript, Java, Python, SQL
Frontend: React.js, Next.js, Streamlit
Backend: Node.js (Express), Spring Boot, FastAPI RESTful API, JWT
Database: PostgreSQL, MySQL, Neo4j
Tools: Git, Docker, Postman, JUnit 5

EDUCATION

Bachelor of Applied Informatics Engineering
Politeknik Negeri Bandung, West Bandung Regency

Aug 2021 - Present

ADDITIONAL INFORMATION

- **Languages:** Bahasa Indonesia (Native), English (Basic working proficiency) – TOEIC 580
- **Interest:**
 - Fullstack Web Development (React, Node.js, Spring Boot)
 - Backend Architecture, API Design, and System Integration
 - LLM & Intelligent Systems (Graph RAG, Ollama, Neo4j)
 - Software Testing, CI/CD, and DevOps Basics