

Warsaw, Poland

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# Jakub Kuźnicki

Junior Backend Developer

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I am a Junior Backend Developer with experience in building modern applications using Spring Boot, AI/ML technologies (LangChain, RAG), and PostgreSQL. I specialize in developing secure, efficient systems and integrating Large Language Models (LLMs). With a solid foundation in testing and containerization, I am seeking a role where I can further grow my technical skills and contribute to innovative solutions within a collaborative team.

## Technical Skills

- Languages: Java, Python, JavaScript, TypeScript, SQL
- Backend: Spring Boot, Spring Security, Spring Data JPA, JWT, REST APIs
- AI/ML: LangChain4j, LangChain (Python), RAG, Vector Embeddings
- Frontend: Angular 18, HTML/CSS, Responsive Design
- Data bases: PostgreSQL, MySQL, pgvector (vector search)
- DevOps/Tools: Docker, Docker Compose, Git, Maven, Cloudinary CDN
- Testing: JUnit 5, Mockito, Integration Testing (85% coverage)
- Other: Kanban, i18n, CORS

## Experience

### Intern Backend Developer Paweł Weselak Pragmatyczne Programowanie

March – July 2025

Warsaw, Poland

- Developed a **file ingestion pipeline** utilizing LangChain.
- Implemented a **RAG (Retrieval-Augmented Generation)** system using LangChain4j and Spring Boot.
- Prepared technical documentation and managed **application containerization**.
- Deployed solutions supporting data processing and retrieval based on **LLMs**.

## Projects

### LlamaTalks — AI Chatbot with RAG

- Built a conversational AI application featuring **Retrieval-Augmented Generation (RAG)** functionality.
- Implemented **semantic document search** using pgvector, supporting over 1400 file formats.
- Integrated **Ollama** for local LLM inference with real-time response streaming.
- Designed persistent chat history with conversation management and message storage.
- **Containerized** a multi-service architecture (Spring Boot, PostgreSQL, Ollama).

Tech stack: Spring Boot 3.5, LangChain4j, pgvector, Reactor/Flux, Apache Tika, Docker Compose, Ollama

### Cibaria — Recipe Management Platform: [Live demo](#)

- Created a **full-stack web application** for recipes with advanced user management.
- Implemented secure **JWT authentication** with Role-Based Access Control (Administrator/User).
- Built a **responsive frontend in Angular** featuring bi-lingual support (English/Polish) and advanced filtering.
- Achieved over **85% test coverage** using JUnit and Mockito, including comprehensive integration tests.
- Integrated **Cloudinary CDN** for optimized image storage and delivery.
- Deployed the containerized application using **Docker Compose** with a PostgreSQL database.

Tech stack: Spring Boot 3.4, Spring Security, Angular 18, PostgreSQL, JPA/Hibernate, JWT, Docker, Cloudinary, JUnit, Mockito

### Game backlog tracker (In development): [Live demo](#)

- **Developing** a comprehensive application for tracking video game progress and managing personal libraries.
- **Implementing social features** allowing users to connect, send friend requests, and view peers' game collections.

- Designing a database schema to efficiently handle complex **user relationships** and shared activity feeds.
- Planning to integrate external APIs (e.g., IGDB or Steam) for fetching game metadata.

Tech stack: Spring Boot 3.5, Spring Security, React PostgreSQL, JPA/Hibernate, JWT, Docker

## Education

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Bachelor – Computer Science | **Vistula University** | Warsaw Poland

**2022 – now**

I consent to the processing of my personal data for the purposes of the recruitment process in accordance with the Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data (GDPR).