

# ANTHONY ROLLAND

Back-End Developer - Software Engineer

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## Summary

Back-end Software Engineer with hands-on production experience building Spring Boot APIs and microservices on AWS, currently apprenticing at SNCF Connect & Tech. Passionate about AI and actively building a RAG system with Spring AI and pgvector. Seeking an international 12–14 week Software Engineering internship for Spring/Summer 2027.

## Work Experience

### SNCF Connect&Tech | Apprentice Software Engineer | Java, Spring Boot, AWS, PostgreSQL

Sep 2025 - Aug 2028

- Delivered production features on high-traffic Spring Boot APIs, applying advanced methodologies like TDD, DDD, and Clean Code principles.
- Optimized external API call strategy by introducing deduplication via Set-based caching, reducing redundant calls and cutting response time by 45%.
- Maintained >80% test coverage across critical services using JUnit 5 and Mockito; enforced SonarQube quality gates to keep the codebase at a rated standard with active participation in peer code reviews.

### Meelo - Fintech Startup | Back-End Developer Internship | Java, Spring Boot, PostgreSQL

Apr 2024 - Jun 2024

- Designed and shipped a standalone notification microservice to production integrating with existing Spring Boot services.
- Engineered secure RESTful APIs using Spring Boot and Elasticsearch, ensuring high availability and data integrity.
- Optimized PostgreSQL database performance by refactoring queries and implementing indexing strategies, reducing query latency by ~10%.

## Projects

### Social Network Platform | Spring Boot, MongoDB, Next.js, React Native, AI [↗](#)

Oct 2024 - Jan 2025

- Collaborated to architect a scalable full-stack solution using Spring Boot and MongoDB, implementing JWT for robust API security.
- Integrated AI models from Hugging Face for dynamic content generation (avatars/posts) and engineered a real-time notification system to drive user engagement.

### RAG API | Spring Boot, Spring AI, Ollama, pgvector, PostgreSQL, AWS S3 [↗](#)

Feb 2026 - Present

- Engineered a semantic document Q&A API using Spring Boot, Spring AI, pgvector, and Ollama.
- Built an async ingestion pipeline (AWS S3, PostgreSQL, nomic-embed-text) processing up to 150-page documents with Flyway-managed schema migrations.
- Containerized the full stack with Docker Compose using multi-stage builds and HNSW vector indexing.

## Technical Skills

Languages: Java, Python, TypeScript, SQL, Bash | Databases: PostgreSQL, MongoDB

Frameworks: Spring Boot, Next.js, React, Tailwind CSS, JPA & Hibernate, Spring AI

DevOps & Cloud: Docker, AWS, Linux, CI/CD, Git, Gradle

Concepts: Microservices, System Design, REST APIs, AI Integration, RAG & LLMs

## Education

**Bachelor of Science in Computer Science** — IUT de Lens | Sep 2022 - Jul 2025

**Master of Science in Computer Science** — INSA Hauts-de-France | Sep 2025 - Aug 2028

**Languages:** French (Native), English B2, German (Basic)