

# ANTHONY ROLLAND

Back-End Developer - Software Engineer

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## Summary

Computer Science student specializing in Back-end development, with a strong personal interest in AI and its applications. 2+ years building Spring Boot microservices and RESTful APIs on AWS cloud infrastructure. Experienced with Agile/Scrum methodologies, TDD, and production deployments. Seeking a 12-14 week Software Engineering internship for Spring/Summer 2027.

## Education

### Bachelor of Science in Computer Science

IUT de Lens  
Sep 2022 – Jul 2025

### Master of Science in Computer Science & Cybersecurity

INSA Hauts-de-France  
Sep 2025 – Aug 2028

## Technical Skills

Languages: Java, Python, TypeScript, SQL, Bash

Frameworks: Spring Boot, Next.js, React, Tailwind CSS

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

Databases: PostgreSQL, MongoDB

Concepts: Microservices, System Design, REST APIs, AI Integration

## Languages

French (Native), English (Professional Proficiency), German (Basic)

## Work Experience

### SNCF Connect&Tech

Apprentice Software Engineer | Java, Spring Boot, AWS, PostgreSQL  
Sep 2025 – Aug 2028

- Develop scalable features for 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%.
- Ensure high code quality through comprehensive JUnit testing, SonarQube analysis, and active participation in peer code reviews.
- Collaborate with Ops teams to manage deployments across AWS environments.
- Engage in Agile ceremonies (Daily, Retro, Planning) and present technical demos to stakeholders to gather feedback.

### Transports BRAY

Data Analyst Intern | Python, PostgreSQL, Power BI  
Mar 2025 – Jul 2025

- Automated data collection workflows using Python and SQL, managed PostgreSQL databases, and designed Power BI dashboards.

### Meelo

Back-End Developer - Internship | Java, Spring Boot, PostgreSQL  
Apr 2024 – Jun 2024

- 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%.
- Built and launched a dedicated alerting microservice in production to enhance real-time system monitoring.
- Collaborated within an Agile/Scrum team.

## 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 for dynamic content generation (avatars/posts) and engineered a real-time notification system to drive user engagement.
- Built responsive cross-platform interfaces for Web and Mobile.

### FCrypt – CLI Encryption Tool | Spring Shell, Java, Cryptography

Jul 2024 – Aug 2024

- Developed a secure command-line application using Spring Shell to execute file encryption/decryption via asymmetric algorithms.
- Engineered a custom key management system to safeguard public/private keys and ensure data confidentiality.