

# Patrick GOLI

## Backend Java Software Engineer

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*Java developer with 4 years of experience designing and delivering secure, maintainable software solutions. Specialized in solving complex algorithmic challenges and implementing robust code resilient to cyber threats. Eager to leverage my expertise in a senior software engineer position in the high-performance computing and data industry.*

## Work History

June 2022 – **Software Engineer – Digital Identity**, IN Groupe - Imprimerie Nationale, Vélizy, France  
To date

- API Leadership: Currently leading the architecture and implementation of REST and SOAP API interfaces, enabling seamless integration between external systems and the central document emission component (IDMS).
- Onboarded and mentored two junior developers guiding them through the team's development processes.
- Identity Management System (IDMS): Contributing to the end-to-end development and technical evolution of the core component managing application and identity document lifecycles.
- Biometric Project (7 months): Directed the development of a multithreaded facial image quality assurance application, integrating a native C++ library for advanced image processing (ICAO compliance).
- Technical Environment: Agile SCRUM, Java 17 (Spring Boot), Hibernate, PostgreSQL, Git, Maven.

Apr – Sep 2021 **Full-Stack Developer – Blockchain**, Internship, IBM France, Bois-Colombes

- Developed a full-stack application for NFT creation, integrated with the IBM Food Trust blockchain platform.
- Improved CI/CD pipelines by enhancing maintainability and ensuring alignment with security best practices; reducing deployment time by 10%.
- Technical Environment: Node.js, Angular, GitFlow, Git, Docker, Jenkins, Ansible, SonarQube, IBM Cloud.

May – Sep 2020 **Security Auditor**, Practical internship, U-Reg, Singapore (Full remote)

- Delivered a comprehensive security audit of a collaborative, cloud-based KYC platform for financial institutions, aligning with ISO 27001, and regulatory standards (GDPR).
- Conducted vulnerability assessments (OWASP Top 10), penetration testing (Burp Suite), and infrastructure hardening for PHP/JavaScript application, in MySQL/Apache environments.

## Education

2019 – March 2022 **ENSIMAG Grenoble-INP**, Information Systems Engineering, Double diploma with I'X, France

- Specialized in Information Systems Security, with expertise in network architecture, cryptographic engineering, security auditing, and comprehensive threat and risk analysis.
- Distributed Systems and Algorithms, Advanced Cloud: VPC, Container orchestration for scalable deployments.

2016 – 2019 **École Polytechnique, I'X**, Engineering Program, Cybersecurity Specialization, France

- Advanced courses in Mathematics, Information Systems, Object-Oriented Programming (Java, C), Networking, and Cryptography, with a strong emphasis on secure software design.
- Applied cybersecurity principles in hands-on laboratory modules, including penetration testing and real-world hacking simulations.

2014 – 2016 **Institut National Polytechnique Félix Houphouet Boigny**, Preparatory classes, Côte d'Ivoire

- Highly selective undergraduate program focused on advanced Mathematics, Physics, and Computer Science.

## Languages and Skills

English **Fluent C1** | French **Native**

**TOEIC** (Listening and Reading) 930/990

Soft Skills Problem-solving, Curiosity & Continuous Learning, Attention to detail

Programming Java Spring (advanced), Python (intermediate), SQL, Architecture design

DevOps Git, Ansible, Jenkins, Docker, Microservices

Management of self-hosted Bitwarden password manager on Google Cloud Platform