

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 Houphouët 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