

AURELE ZANNOU

Software Engineer | Tech Lead
Software Lifecycle Management



Summary

Senior Software Engineer bringing over 14 years of experience in software architecture, scalable solution design, and end-to-end software development. Strong expertise in backend and frontend technologies, cloud platforms, and technical leadership.

EXPERIENCE

Société Générale - jan 2020 - Present  **SOCIÉTÉ GÉNÉRALE**
Technical Lead, Software eng.

- Architect and deliver scalable enterprise trade reporting systems in a Java/Python ecosystem powered by Apache Spark, ensuring performance, scalability, and reliability.
- Provide technical leadership across full-stack engineering, cloud architecture, security, and software delivery, mentoring developers and driving engineering best practices.
- Own end-to-end delivery, including system design, secured API development, Identity and Access Management (IAM), CI/CD, DevOps, Testing strategies and disaster recovery.

Desjardins - jan 2018 - jan 2020  **Desjardins**
Senior Programmer Analyst

- Developed and maintained Java microservices / REST APIs for Desjardins client service platforms, delivering business-critical payment and cheque imaging solutions.
- Built automated testing (unit, integration, E2E) and contributed to full-stack development using Spring Boot, Angular, cloud platforms, and Agile practices.

Exo Marketing - Jul 2016 - Dec 2017  **exo2b**
Full Stack Web Developer

- Developed and maintained RESTful APIs, websites, and automation workflows, improving application performance, SEO optimization, and business process efficiency.
- Contributed to project management and full-stack delivery using PHP, SQL, TypeScript, JavaScript, and CRM automation tools.

Agence CMS - Sep 2012 - May 2016  **CMS**
Full Stack Web Developer

- Developed RESTful APIs, web applications, and automation workflows to improve business operations and digital presence. Delivered end-to-end solutions involving SEO optimization, project management, and CRM automation using PHP, SQL, TypeScript, and JavaScript.

EDUCATION

Master of Science, M.Sc · Information Technology (IT)
2019 - 2022 : **ESG / UQAM** (Montreal)

Bachelor of Science, B.Sc · Computer Science and Software Engineering
2014 - 2017 : **UQAM** (Montreal)

Professional License · Software Engineering
2008 - 2010 : **HECM** (Cotonou)

(BTS) Senior Technologist Certificate · Industrial IT and Maintenance
2007 - 2008 : **HECM** (Cotonou)

★ Skill Set

Architecture & Design: System Architecture · Software Architecture · Distributed Systems · Microservices Architecture · Design Patterns · Event-Driven Architecture · AI/ML
Backend: Java · Spring Boot · Spring AOP · REST APIs · GraphQL · Python · PHP
Frontend: Angular · React · TypeScript · JavaScript · HTML · CSS · Bootstrap
Cloud / DevOps: Azure · AWS · Kubernetes · Docker · CI/CD · Infrastructure as Code
Data & Messaging: PostgreSQL · SQL Server · Oracle Db · RabbitMQ · Apache Spark · Caching
Security & Quality: Testing · Monitoring · OAuth 2.0 · Security Best Practices · Observability
Leadership: Technical Lead · System Design Reviews · Mentoring · Stakeholder Communication.

 Montreal

 438 998 9102

 z.aurele@gmail.com

 linkedin.com/in/aurele

Engagements

Trade Surveillance

Designed and implemented scalable applications to process and monitor high-volume trading data from multiple sources, ensuring compliance and conflict-of-interest detection.

Distributed Processing

Deployed Apache Spark architecture on on-premises Linux infrastructure, and developed Java APIs to monitor job execution, performance, and system health.

Event-Driven Architecture

Implemented event-driven architectures to enable scalable, loosely coupled microservices and asynchronous communication using message brokers (RabbitMQ)

Cloud Azure/AWS

Modernization and migration of legacy APIs to Azure using cloud-native services, Azure Kubernetes Service, Azure Key Vault, and containerized deployments with Docker.

DevOps

Drove the migration of DevOps workflows from Jenkins to GitHub Actions, optimizing CI/CD processes, developer productivity, and release reliability.

AI/ML

Built data engineering pipelines using the Lakehouse architecture, Delta Lake, Spark and MLflow. Built an e-communication monitoring system using Azure Open AI.

Certification / Training

 **AZ-900** - Microsoft Azure

 **Angular** - DE533F Technologia

 **IT Security** - SG internal

 **Risk Management** - SG internal

 **Financial Crime** - SG internal

Languages

✓ French

✓ English