

# Ali AYOUBI

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Paris, FRANCE

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## Work experience

### Systems Architect at Murex

2016 – Present

Architecting technical services in the MX.3 platform:

- Designing REST APIs for MX.3 infrastructure services.
- Designed a reliable and scalable distributed log management system for all MX.3 services, using open source technologies.
- Created a production-readiness governance process for infrastructure services. This process is now adopted across the company to ensure MX.3 services are aligned with the enterprise architecture vision and the production-quality targets.

Technology stack: Bash, Python, Java, Spring Boot, REST APIs, ELK, OpenTracing, Qpid Broker, HAProxy, Docker, Kubernetes, Linux, AWS, Azure.

### Team Lead Technical Consultant at Murex

2015 – Present

Managing 3 technical consultants in the Production and Architecture team:

- Led several strategic technical proofs of concepts for high-profile prospects, thanks to which the customers signed with Murex:
  - High-volume XVA calculation POC for a tier 1 Australian bank.
  - High-throughput low-latency FX trading POC for a tier 1 European bank.
  - High-volume PFE performance POC for a tier 1 European bank.
- Architected, developed, and maintained the CI/CD pipelines of our performance benchmarking infrastructure using Jenkins, Python and Java.
- Migrated a large-scale performance benchmarking environment to AWS & Microsoft Azure.

### Senior Technical Consultant at Murex

2010 – 2015

The Production and Architecture team ensures all customers have a reliable production by perfecting the systems' non-functional requirements:

- Rearchitected the XVA calculation system for high scalability and fault tolerance, by scaling out the calculations over multiple processes and servers, supporting GPUs, integrating high-speed IO infrastructures (GPFS, GlusterFS), optimizing the codebase for a faster multithreaded scheduling, allowing the company to sell the module to customers with large calculation requirements.
- Improved the latency of Real-time Market Data feed by 99.7% (from 3200 ms to 7 ms on average), by profiling and optimizing the codebase and designing architectural changes to improve the scalability of the software.
- Led multiple customer implementations, ensuring a successful go-live, and providing technical support in production post go-live.
- Organized technical workshops and trained customers and colleagues around the world, allowing for a smoother adoption of new modules delivered by Murex.

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## Education

Bsc in Computer Science  
American University of Beirut  
2007– 2010

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## Technologies & Technical Competencies

	Knowledgeable	Intermediate
Programming Languages	Python, Java, JavaScript, Shell	Go
Cloud Platforms	AWS, Azure	GCP
Data Analytics	Pandas, NumPy	
Data Visualization	matplotlib, Grafana, Kibana	
Messaging	Qpid	Kafka, RabbitMQ
Web Frameworks	Flask	Spring Boot, Django
CI/CD/Automation	Jenkins, Ansible	SaltStack
Orchestration	Kubernetes (certified CKA, CKAD)	
Data Storage	Oracle, Sybase, MySQL, Elasticsearch	PostgreSQL

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