

Moez Bouhleh

Lead Software/Backend Engineer

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- A Software Engineer with **12+ years of expertise** designing and building scalable back-end systems, middleware, and microservices
- Proven track record across banking, automotive, and consulting sectors, delivering robust, efficient distributed solutions.

TECHNICAL SKILLS

Languages: Python, Golang, JavaScript
Technologies: FastAPI, Django, Node.js, Vue.js, Gin/Gorm
Web Services: REST API, WebSockets, OpenAPI, AsyncAPI, EDA, AMQP, JWT, MQTT
DB & MQ: SQL, PostgreSQL, MongoDB, RabbitMQ, Kafka, QuestDB, Redis
Testing: PyTest, Mocha, Jest, PgTap
DevOps: Git, GitLab CI, Docker, Kubernetes, Python/Fabric, Ansible

WORK EXPERIENCE

Senior Software Engineer

Jan 2025 — Present

BNP Paribas CIB (Banking, Finance)

Île-de-France, France

- Led the development of a workflow engine powering BNP Paribas CIB's internal private cloud orchestrator using Python.
- Ensured system resilience and recoverability through RabbitMQ-based EDA and Kubernetes-managed orchestration.
- Improved reliability with robust PyTest-based e2e test coverage and enhanced observability via OpenTelemetry distributed tracing.
- Implemented security measures and best practices to successfully pass audits and ensure compliance with industry standards.
- Collaborated with cross-functional teams, including PO and SRE, to align technical architecture with business requirements.
- Technologies: Python, RabbitMQ, Kubernetes, MongoDB, FastAPI, PyTest, Agile (Scrum), DevOps.

Lead Backend Engineer

Jul 2023 — Oct 2024

Alpine Racing, Renault Group (F1 Car Manufacturing)

Île-de-France, France

- Designed and implemented a data analysis platform from scratch to process car telemetry (from live streams and in batches).
- Optimized the data platform for multi-protocol support (MQTT, UDP, Kafka, AMQP, CAN Bus, ATLAS) and real-time processing.
- Implemented REST API and WebSocket API for data management, live dashboarding, and reporting using Python / FastAPI / Polars.
- Implemented an ultra-low-latency video streaming solution for live and VOD videos using SRT, LL-HLS, and WebRTC protocols.
- Technologies: Python, MQTT, Kafka, UDP, QuestDB, Azure API, FastAPI, PostgreSQL, Arrow, PyTest, Agile (Scrum), DevOps, C#.

Principal Software Engineer / Co-Founder

Aug 2017 — Jun 2023

Technology Innovation Network (IT consulting agency)

Tunisia / France

- Architected and led the development of a SaaS CLM platform based on EDA / DDD using Node.js / Golang / RabbitMQ / Kubernetes.
- Contributed to a custom CDN system built in C for the core engine, and Golang for the Kubernetes operators and microservices
- Designed a multi-tenant LMS system using Golang, FastAPI, and AsyncAPI, leveraging event-driven architecture and microservices.
- Delivered and maintained web services and internal tools for SMEs using Python, Django, OpenAPI, Celery, and Docker
- Managed and mentored a fast-growing team of 10 Software Engineers and DevOps Engineers, fostering Agile best practices.
- Technologies: Python (Django/FastAPI), Golang, JavaScript (Node.js/WebSocket), RabbitMQ, MongoDB, PostgreSQL, Kubernetes.

Freelance Software Developer (Back-End & Front-End)

Jun 2013 — Jul 2017

- Delivered and maintained end-to-end web applications for small business clients using PHP, Python / Django, and JavaScript ES6.

EDUCATION

Bachelor of Science, Computer Science, FSS Faculty of Science of Sfax, Tunisia

Major Coursework: Data Structures and Algorithms, Design Patterns, System Programming, Distributed Computing, DBMS, Algebra, and Statistics