

MOHAMED OUSSAMA BOUGUEDDACH

Software Engineer

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Career Summary

Backend Engineer with 4+ years across Oracle GraalVM and fintech, building backend systems, CI/CD infrastructure, and reliability-critical workflows. Strong in Kotlin/Java (Spring Boot) and Python, with experience designing BFF foundations, identity flows, and data-driven CI scheduling systems.

Education

National School of Applied Sciences, Tangier

Diplome d'ingenieur – Master of Engineering

2018– 2023

Software Engineering

Experience

Payvaa - Cross-border remittance startup

Founding Engineer

11-2025– Present

Remote

- Established and owned the core BFF contract for a mobile-first remittance product, standardizing screen specifications and unifying API shape across iOS and Android.
- Designed from scratch the identity and onboarding architecture end-to-end, covering passwordless OTP, Google PKCE, token lifecycle, and KYC integration.
- Implemented idempotent transfer execution and retry-safe processing semantics to reduce duplicate remittance risk and make money movement workflows safe under failure scenarios.
- Built auditability and operability into the platform from the start through persistent audit tables, OpenTelemetry tracing, and Grafana/Loki observability, enabling end-to-end transaction traceability.

Oracle – GraalVM

Software Engineer

02-2023– 11-2025

Morocco

- Delivered full-stack reliability features for GraalVM CI, including a safeguard dashboard that reduced transient job failures blocking critical workflows by around 12%.
- Led design and rollout of dynamic build tiering for a CI platform used by 5+ product teams, improving utilization and queuing efficiency by about 20%.
- Built the validation model behind tiering, including dependency-graph cycle detection and rollout simulation tooling to make policy changes safe and operable.
- Built Python automation tooling for QA report generation and failure ticket creation, reducing manual effort by about 15 hours/week and expanding test coverage.
- Contributed to a test aggregation ETL processing around 200K daily results, automating alert/ticket generation and surfacing failure trends via dashboards.
- Led stakeholder alignment and rollout for dynamic tiering across 5+ product teams, driving adoption of a new CI scheduling model and contributing to a 16% infra-cost reduction.
- Expanded CI/CD pipeline automation from about 60% to 80% of release tasks; mentored 2 interns to full-time offers.

Oracle – GraalVM

Software Engineering Intern

07-2022– 02-2023

Morocco

- Designed and implemented an open-source artifact publishing service (Micronaut, Docker, Kafka) with extensible strategy-pattern retrieval and a signing service backed by Oracle Cloud Object Storage.

Catalyst Design Lab

Freelance Software Engineer

04-2021– 02-2022

Remote

- Automated account management workflows (Selenium) and multi-channel notifications (Twilio, email), reducing manual errors about 30% and lifting client retention from 85% to 92%.
- Integrated webhooks across multiple payment providers to automate provisioning and reconciliation.

Skills

- **Backend:** Java/Kotlin (Spring Boot), Python (FastAPI)
- **Frontend:** React, Next.js, TypeScript, JavaScript
- **Databases & Messaging:** PostgreSQL, Redis, Kafka, SQL/PL-SQL, DynamoDB
- **DevOps & Cloud:** Docker, Kubernetes, Terraform, AWS (EC2, RDS, S3, SES, CloudFront, Lambda), CI/CD (GitHub Actions, GitLab CI)
- **Testing & Quality:** pytest, JUnit, Mockito, Selenium
- **Languages:** English (IELTS 7.5), French (TCF C2)