Mohamed Oussama Bougueddach

Software Engineer - Berlin, Germany

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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 Java/Kotlin (Spring Boot) and Python, with experience designing event driven pipelines, identity flows, and data-driven CI scheduling systems.

Experience

Payvaa - Cross-border remittance startup **11-2025– Present**
Founding Engineer *Remote*

- Designed from scratch the identity and onboarding architecture end-to-end, covering passwordless OTP, Google PKCE, token lifecycle, social/native account consolidation 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.
- Designed the compliance gate for money movement: rule-based fraud scoring plus AML/sanctions screening behind a pluggable provider abstraction, resolving to a single ALLOW/REVIEW/BLOCK decision.
- Stood up vendor-neutral observability from day one: OpenTelemetry/Micrometer to Grafana Cloud (Loki/Tempo), trace-context propagation, and persistent audit tables for every money-movement event.

Oracle – GraalVM **02-2023– 11-2025**
Software Engineer *Morocco*

- Led design and rollout of dynamic build tiering for the CI platform scheduling around 200K test executions daily across 5+ product teams, improving utilization and queuing efficiency 20%; mentored 2 interns to full-time offers.
- Owned the enumerator service end to end: validates Jsonnet test definitions, resolves cross-product dependencies via topological sort with cycle detection, and builds the tiered plan the scheduler packs against.
- Built profile-aware bin-packing into the scheduler, co-locating jobs by resource profile across a mixed bare-metal fleet (+6% utilization).
- Hardened the executor cleanup path on a non-re-imageable bare-metal fleet down to the git layer, using double-locking and cache-swap to keep cleanup safe under concurrency.
- Designed an on-the-fly job-ignore mechanism for peak and release windows, removing a multi-repo PR-and-approval cycle.
- Automated full-matrix QA across all supported OS/architectures via GitLab CI, auto-filing Jira tickets through the Atlassian APIs; freed 15 hrs/week of manual QA.

Oracle – GraalVM **07-2022– 02-2023**
Software Engineering Intern *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 **04-2021– 02-2022**
Software Engineer *Remote*

- Built an automated account-provisioning workflow (Java, Spring, Selenium Grid, Docker) generating accounts within seconds of payment despite no provider API.
- Integrated payment-provider webhooks for provisioning and reconciliation with email/SMS credential delivery; cut fulfillment errors 30%, retention 85% → 92%.

Education

National School of Applied Sciences, Tangier **2018– 2023**
Diplôme d'ingénieur – Master of Engineering *Software Engineering*

Skills

- **Backend:** Java/Kotlin (Spring Boot), Python (FastAPI)
- **Development Disciplines:** Domain driven design, Test-Driven Development, Spec-Driven Development
- **Databases & Messaging:** PostgreSQL(incl. pgvector), Redis, Kafka, SQL/PL-SQL, DynamoDB
- **DevOps & Cloud:** Docker, Kubernetes, Terraform, AWS, CI/CD, Ansible
- **Testing & Quality:** pytest, JUnit, Mockito, Selenium
- **AI-Assisted Development:** Codex, Claude code, GitHub Spec Kit
- **Languages:** English (IELTS 7.5), French (TCF C2), German (current A2, targeting B1)