

MOHAMED KHABIR

Senior Software Engineer & Technical Lead | Technical Program Delivery | AI-Powered Enterprise Platforms | 7+ Years

+216 93 831 879 | khabir.mohamed12@gmail.com | linkedin.com/in/mohamedkhabir | github.com/mohamedkhabir | Tataouine, Tunisia
| Open to Relocation anywhere in Europe

PROFESSIONAL SUMMARY

Senior Software Engineer and Technical Lead with 7+ years delivering enterprise software platforms for international clients across Saudi Arabia, UAE, Oman, and Tunisia. Leads technical initiatives end-to-end, from architecture and technology decisions through production deployment, coordinating backend, frontend, mobile, and DevOps work across concurrent client engagements. Works directly with clients and stakeholders to translate business requirements into technical delivery, plan Agile sprints, prioritize backlogs, and manage technical risks and blockers. Builds AI-powered systems, including a natural-language-to-SQL query engine on the Anthropic API, alongside multi-tenant enterprise platforms handling high concurrent load. Core stack: Java/Spring Boot, Angular, C#/.NET, React, Flutter, event-driven microservices with Apache Kafka. Collaborates daily with distributed international teams across the Gulf and MENA regions. Certified Scrum Master. Fluent in English, academic background in French, native Arabic. Open to relocation anywhere in Europe.

CORE COMPETENCIES

Technical Leadership & Delivery: Technical Program Delivery, Architecture Ownership, Cross-functional Team Coordination, Agile/Scrum, Sprint Planning, Backlog Prioritization, Code Reviews, Technical Mentoring, Risk & Blocker Management, Stakeholder Communication, Release Planning

Engineering & Architecture: Software Architecture, Microservices, Distributed Systems, Event-Driven Systems (Kafka), Cloud Architecture, SDLC, CI/CD, Production Readiness, Incident Resolution, QA & Cybersecurity Ownership, Regulated/Compliance-Driven Delivery (SAMA)

AI & Enterprise Platforms: AI Solution Architecture, LLM Integration (Anthropic API), Natural Language to SQL, AI-Assisted Enterprise Workflows, Multi-Tenant SaaS, Enterprise Software

PROFESSIONAL EXPERIENCE

Senior Software Engineer & Technical Lead | CAMELSOFT LLC Aug 2018 – Present

IT consulting company delivering custom software solutions for international clients across the Gulf, Europe, and MENA. Operates as hands-on engineer, technical lead, and client-facing consultant across simultaneous consulting engagements. Internal company projects 2018–2020: company CRM, corporate website, and custom business solutions.

Mission: Senior Software Engineer & Technical Project Lead | Client: Rest ERP Jul 2023 – Present

Saudi Arabia (Hybrid) | Stack: Java/Spring Boot + Angular LTS + Flutter (mobile) | Kafka | PostgreSQL | Hetzner

- Led architecture and development of the Java/Spring Boot backend for a multi-tenant ERP platform, **coordinating delivery across 7 independent modules** (Dashboard, CRM, Super Admin, Help Center, Support, Website, Mobile App).
- Designed event-driven microservices architecture using Apache Kafka, achieving zero message loss even under service disruptions.
- Directed Angular LTS frontend delivery across four modules (Dashboard, CRM, Help Center, Super Admin) with reactive components, routing, and state management.
- Took ownership of mobile delivery as a stepping-in Flutter contributor alongside backend duties, self-onboarding via official documentation, shipping real features, and **coordinating the sourcing and onboarding of a dedicated Flutter developer** to sustain the workstream.
- Owned platform infrastructure: complex PostgreSQL schemas, advanced SQL optimization, Jenkins CI/CD, Nginx, Redis caching, Grafana monitoring, deployed on Hetzner dedicated servers.
- Delivered real-time communication features: WebRTC/LiveKit for video/audio, STOMP over WebSocket for live chat.
- Led Agile/Scrum ceremonies** — Sprint Planning, Backlog Grooming, and Code Reviews — across the engineering team, acting as the client's primary technical point of contact throughout delivery.

Challenge: ZATCA e-invoicing integration (mandatory in Saudi Arabia) with near-zero official documentation.

Solution: Reverse-engineered the ZATCA SDK over 4 to 6 days, mastered invoicing standards, delivered full integration without external support.

Result: Full ZATCA compliance, platform approved for production use in the Saudi market.

Challenge: Non-technical users needed to query live business data without SQL knowledge.

Solution: Proactively designed and built **Eltrion**, a proprietary AI query engine, using Spring Boot, Python, RAG (Retrieval-Augmented Generation), and a vector database over the Anthropic API: auto-analyzes the ERP database schema and converts natural language questions into SQL.

Result: Business users extract insights in plain language with zero technical intervention, became a key platform selling point.

Mission: Senior Software Engineer & Technical Lead | Client: Wanis Jan 2025 – Dec 2025

Tunisia | Stack: Java/Spring Boot + Angular LTS + Flutter (mobile, partial) | Kafka | PostgreSQL | DigitalOcean

- Led complete Java/Spring Boot backend delivery: bookings, ride tracking, driver/passenger matching, and payment workflows.
- Directed Angular LTS frontend delivery: passenger and driver web interfaces, interactive maps, real-time ride notifications.
- Took ownership of the Flutter mobile app alongside backend responsibilities, delivering key screens and real-time location features.
- Delivered supporting platform infrastructure: WebSocket, Cron Jobs, Twilio SMS/WhatsApp, Redis, Grafana, Jenkins CI/CD, GitLab, Nginx, CDN.

Challenge: Google Maps API costs made the project financially unviable at scale.

Solution: Made the technical call to replace it with Uber's H3 SDK (hexagonal geospatial indexing), drastically reducing API calls.

Result: Significant infrastructure cost reduction, restoring project profitability.

Challenge: RabbitMQ matching introduced unacceptable latency for real-time UX.

Solution: Led the migration to Apache Kafka for all critical real-time events.

Result: Sub-second driver/passenger matching with guaranteed message delivery and no data loss.

Mission: Senior Software Engineer & Technical Lead | Client: Muaawana Trading LLC Jan 2024 – Jun 2024

UAE | Stack: Java/Spring Boot + Angular LTS + Flutter + PostgreSQL | muaawana.com | AWS

- Led development of the complete Java/Spring Boot monolithic backend: service requests, technician assignment, job tracking, invoicing, and B2B workflows spanning B2C and B2B channels simultaneously.
- Directed the Angular LTS Super Admin dashboard: full control over technicians, clients, service categories, job assignments, and platform analytics.
- Directed the Angular LTS B2B dashboard: dedicated portal for business clients to submit, track, and manage service requests at scale.
- Coordinated mobile delivery as Flutter contributor across client and technician apps: real-time job notifications, job status updates, and service request flows.
- Integrated a custom local invoicing system and Odoo invoice module for automated billing and financial tracking.
- Owned the PostgreSQL schema covering users, roles, services, assignments, invoices, and B2B accounts. Jenkins CI/CD, Nginx, deployed on AWS.

Challenge: Matching service requests to available technicians in real time while handling concurrent B2B and B2C demand.

Solution: Designed a priority-based assignment engine with WebSocket notifications pushing job updates to technicians instantly upon assignment.

Result: Seamless real-time job dispatch with zero assignment conflicts across B2B and B2C channels.

Mission: Software Engineer | Client: Huna (Rooted) — Product Approval Platform Jan 2025 – May 2025

Oman (Hybrid) | Stack: C#/.NET + React + PostgreSQL | Azure

- Built RESTful APIs in C#/.NET + PostgreSQL for complex multi-step approval workflow management.
- Delivered the React frontend: validation forms, approval dashboards, and real-time status updates.
- Integrated Firebase FCM push notifications, STOMP over WebSocket, Jenkins CI/CD, Nginx, Azure, CDN.

Mission: Software Engineer | Client: Etbaaonline — Online Print Platform May 2025 – Dec 2025

Oman (Remote) | Stack: C#/.NET + React + PostgreSQL | Azure

- Built RESTful APIs in C#/.NET + PostgreSQL for order management, approval, and invoicing workflows.
- Delivered the React frontend: interactive product configurator and real-time 3D preview via the img.ly SDK.
- Integrated the Thawani payment gateway for the Omani market, Twilio WhatsApp, Firebase FCM, Jenkins CI/CD, Nginx, Azure, CDN.

Mission: Senior Software Engineer & Technical Lead | Client: Safaqt — Government Tender Platform May 2023 – Oct 2024

Oman (Remote) | Stack: Java/Spring Boot + Angular LTS + PostgreSQL | GCP

- Led the scalable Java/Spring Boot backend on multi-tenant PostgreSQL architecture meeting government compliance requirements.
- Directed the Angular LTS frontend: tender portal, configurable form CMS, sub-user management with privilege tiers.
- Delivered secure REST APIs, real-time notification server, real-time chat, and Swagger documentation. Jenkins CI/CD deployed on GCP.

Mission: Senior Software Engineer, Technical Lead & Software Architect | Client: Raya Financing Jan 2023 – Dec 2024

- Led development of the complete Java/Spring Boot backend for a leasing and financing platform: loan applications, approval workflows, vendor onboarding, and contract management.
- Directed the Angular LTS Vendor Portal: financing request submission, approval tracking, product catalog management, and financial reporting.
- Directed the Angular LTS Admin Portal: full back-office control over applications, vendor management, approval workflows, and financial reporting.
- Designed complex PostgreSQL schemas for financing contracts, repayment schedules, vendor profiles, and audit trails with role-based access control. Jenkins CI/CD, Nginx, deployed on DigitalOcean.
- Extended the platform with a **Dealer Portal and Sub-Dealer Portal** (Admin Portal and Supplier Portal) across web and mobile (iOS & Android), delivered under a Saudi Central Bank (SAMA)-regulated financing license.
- **Owned QA, cybersecurity, and DevOps** for the engagement: Jenkins CI/CD pipelines, Nginx/Apache reverse proxy and load balancing, and security controls aligned with SAMA cybersecurity requirements.
- Established a controlled-access architecture (VPN-restricted, authorized-staff-only) for database and source-code maintenance to meet banking-grade confidentiality and audit requirements.
- Set up weekly reporting cadence under a formal Project Charter and Service Level Agreement (SLA), with defined incident and default-remediation workflows for contractual compliance.
- **Acted as CAMELSOFT's authorized signatory**, negotiating contract scope, pricing, and delivery terms directly with Raya Financing's CEO, and owned delivery accountability end-to-end.

Challenge: Complex multi-step approval workflows with different rules per financing product and vendor type.

Solution: Designed a configurable workflow engine in Spring Boot: each financing product defines its own approval chain assignable to specific admin roles.

Result: Flexible approval system handling all financing product types without code changes, reducing admin processing time significantly.

Mission: Software Engineer | Client: Cr8ive — Coaches SaaS Platform Jul 2023 – Sep 2024

UAE (Hybrid) | Stack: Java/Spring Boot + Angular LTS + PostgreSQL | Hetzner

- Built the multi-tenant Java/Spring Boot + PostgreSQL architecture for stable, scalable production environments.
- Delivered the Angular LTS frontend: course catalog, coach dashboard, e-wallet, and consultation booking flows.
- Integrated Moyasar, Stripe, and HyperPay payment gateways for local and international markets.
- Set up WebSocket/STOMP, Redis, Jenkins, GitLab CI/CD, and Swagger documentation.

Mission: Fullstack Consultant | Client: Cr8ive — RavenApp (Logistics) Aug 2022 – May 2023

UAE (Hybrid) | Stack: Java/Spring Boot + Angular/TypeScript + PostgreSQL | DigitalOcean

- Built RESTful Java/Spring Boot + PostgreSQL APIs for all core logistics operations.
- Delivered reusable Angular/TypeScript components: parcel tracking, carrier selection, one-to-one real-time chat.
- Implemented OAuth authentication, Stripe payment integration, GitLab CI/CD, and **mentored a junior developer** on the team.

Mission: Java Developer & QA Automation Engineer | Client: Consulti.tn Jan 2021 – Aug 2021

Tunisia | Stack: Java + MongoDB + Selenium | Personal server

- Built the Java/MongoDB backend for a B2B service-matching platform: profiles, offers, and company-provider interactions.
- Delivered real-time chat (STOMP/WebSocket), Firebase FCM, and automated test suites with Selenium/Java.
- **Led a junior development team** through code reviews and knowledge-sharing sessions.

Mission: Technical Lead & Software Architect | Client: Photolink — Travel Social Platform (Cr8ive collaboration) Dec 2020 – Mar 2021

UAE | Client: Ziyad Alarfaj | Delivered jointly by CAMELSOFT (lead) and Cr8ive | Stack: Java/Spring Boot + Flutter (mobile) + Angular (web dashboards) + PostgreSQL

- Led technical architecture and delivery as Technical Lead for a social travel platform: trip stories, memories, profiles, social interaction (post, comment, like, share), and a rent/buy marketplace for travelers.
- **Architected the offline-first mobile experience**, the platform's core technical challenge: travelers spending 3 to 10 days without connectivity needed to keep capturing photos, stories, and trip data continuously, then have it all sync automatically once back online.
- Directed backend server development: authentication, big-data user/transaction data management, media upload/download and conversion pipelines, AI-based content moderation, GPS trip tracking and mapping, and copyright/rights management.

- Oversaw delivery of the responsive client website (3 dashboard types plus core site) and the cross-platform mobile app, coordinating parallel server, web, and mobile workstreams within a 3.5-month build timeline.
- Owned the engagement end-to-end from UX prototyping (web and app) through development and pre-launch testing, in a co-delivery model between CAMELSOFT and Cr8ive for the client.

Challenge: *Travelers on multi-day trips (3 to 10 days) frequently had no internet connectivity, but needed to keep capturing stories, photos, and trip data without interruption.*

Solution: *Designed an offline-first architecture that stores all captures locally on-device, then automatically queues and syncs the full set of images, stories, and trip data to the server as soon as connectivity returns.*

Result: *Uninterrupted trip tracking and memory capture regardless of connectivity, with reliable, zero-loss data sync on reconnection.*

TECHNICAL SKILLS

Backend: Java, Spring Boot (MVC, Batch, Core), Hibernate, Microservices, REST API, C#/.NET, Python, Flask

Frontend: Angular (LTS), React, TypeScript, HTML5, CSS3, JavaScript

Mobile: Flutter / Dart (cross-platform iOS and Android)

Databases: PostgreSQL, Oracle (10g–12C), MySQL, SQL Server, MongoDB, advanced SQL optimization

Messaging and Events: Apache Kafka, RabbitMQ, WebSocket/STOMP, WebRTC/LiveKit, Firebase FCM, Twilio

Cache and Monitoring: Redis, Grafana, Load Testing, performance profiling

QA and Testing: Selenium/Java, Playwright/TypeScript, JUnit, Postman, REST API Testing

CI/CD and DevOps: Jenkins, GitLab CI/CD, Docker, Nginx (reverse proxy / load balancer), Ubuntu

Cloud and Infrastructure: AWS, GCP (BigQuery, BigTable), Microsoft Azure, DigitalOcean, Hetzner, Alibaba Cloud, Hostinger Cloud, OVH, Firebase, CDN

Payments: Stripe, HyperPay, Moyasar, Thawani, Odoo Invoice

Maps and Routing: Uber H3 SDK (hexagonal map optimization), Google Maps API

AI Integration: Eltrion (proprietary AI query engine), Anthropic API (Claude), Python, RAG (Retrieval-Augmented Generation), Vector Databases, natural language to SQL, LLM-powered backend systems

Version Control & Collaboration: GitHub, GitLab, Bitbucket

Project Management: Jira, Trello, ClickUp

Operating Systems: Ubuntu, Windows

Program & Delivery Methods: Agile/Scrum, Sprint Planning, Backlog Prioritization, Code Reviews, Technical Mentoring, Release Planning, Risk Management, Stakeholder Communication

EDUCATION

Bachelor's Degree in Computer Science | University of Sousse2020 | Sousse, Tunisia

Computer Science Baccalaureate | Tataouine High School2017 | Tataouine, Tunisia

CERTIFICATIONS AND LANGUAGES

Certifications: Certified Scrum Master (CSM), Simplilearn | Certified Java Developer, Microsoft | Certified C# Developer, Microsoft | SQL Developer, Simplilearn

Languages: Arabic: Native | French: Fluent (written and spoken) | English: Fluent (written and spoken)