

Jobran Amairi

IT Engineer - Senior Full Stack Developer

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PROFESSIONAL SUMMARY

Senior Full Stack Developer with 10+ years of experience designing and delivering complex enterprise systems across biometrics, telecom, identity management, and SaaS platforms. Proven track record in microservices architecture, cloud infrastructure (AWS, Kubernetes), and secure authentication systems (Keycloak, mTLS). Deep expertise in Java SpringBoot, React/Next.js, Angular, and multi-database strategies (PostgreSQL, Couchbase, Elasticsearch, MongoDB).

CORE SKILLS

Frontend: React.js, Next.js, Angular (2–17), TypeScript, Redux, GraphQL, HTML5, CSS3, Tailwind, Material UI, Storybook

Backend: Java SpringBoot, Node.js (Express, Fastify, NestJS), REST, gRPC, WebMethods, OpenAPI/Swagger

Databases: PostgreSQL, MongoDB, Couchbase, Elasticsearch, Redis, GridFS, S3 AWS

DevOps & Cloud: Docker, Kubernetes (MicroK8s), GitLab CI/CD, AWS, Heroku, Google Cloud, OVH

Security & Auth: Keycloak, mTLS, RBAC, JIT Provisioning, SSO, OAuth2, JWT

Architecture: Microservices, DDD, Hexagonal Architecture, Micro-Frontend, Event-Driven, Async Messaging

PROFESSIONAL EXPERIENCE

Freelance Full Stack Developer | Proximus | June 2024 – Present

Customer Analytics · Data-Driven Dashboards · Microservices · Async Data Processing

- **Decision Intelligence Dashboard:** Designed and delivered a full-stack BI platform enabling Proximus teams to monitor customer behavior and usage insights in real time, processing massive daily data volumes across a distributed pipeline.
- **Async Data Pipeline:** Engineered a high-throughput async processing system using SpringBoot with resequencer, mapper and entity service patterns for reliable ordering, transformation and routing of telecom data streams.
- **Elasticsearch & Splunk:** Leveraged Elasticsearch as the core aggregation layer for sub-second dashboard responses across millions of daily records, with Splunk for log monitoring and observability.
- **Microservices & Couchbase:** Built SpringBoot microservices with Couchbase as a high-performance NoSQL layer for session and behavioral data at scale.
- **WebMethods Integration:** Implemented WebMethods-based enterprise integration orchestrating data flows between legacy systems and modern microservices.
- **Hybrid Persistence:** Designed a multi-database architecture combining PostgreSQL, Couchbase and Elasticsearch for flexible, performant querying across all customer insight use cases.
- **AI-Powered Conversational Analytics:** Pioneered a natural language analytics experience replacing traditional navigation: users simply describe what they want to explore in a chat interface, and the system instantly returns dynamic charts and visualizations in real time — powered by an AI layer that interprets intent and queries the data pipeline on the fly.

Technologies: Next.js, Java SpringBoot, PostgreSQL, Elasticsearch, Couchbase, Splunk, WebMethods, Microservices, Async Messaging, Resequencer/Mapper/Entity Services, AI/NLP, Real-time Data Viz

Senior Full Stack Developer | Satoris International | May 2023 – May 2024

Biometric Identity Management · Microservices · Secure Cloud Infrastructure · Multi-tenant SaaS

- **Microservices Architecture:** Designed a production-grade ecosystem — auth-api, document lifecycle, biometric processing and notification dispatch — ensuring service isolation, scalability and resilience.
- **Kubernetes (MicroK8s):** Orchestrated full containerized infrastructure managing pod lifecycles, namespace isolation, Ingress routing and rolling deployments for zero-downtime government issuance operations.
- **JSONB Multilingual Flow:** Implemented i18n using PostgreSQL JSONB fields for translatable content, eliminating JOIN-heavy translation tables and enabling real-time multi-language document generation.
- **Multi-tenant Identity Platform:** Engineered a high-availability multi-tenant system with dynamic tenant resolution and isolated Keycloak realms supporting multiple government agencies on a single infrastructure.
- **PgBouncer & Performance:** Optimized database resilience using PgBouncer in transaction pool mode, sustaining high-concurrency biometric queries at 99.9% uptime.
- **Biometric Document Lifecycle:** Developed Angular 17 and SpringBoot modules for Passport and National ID orchestration, integrating Fingerprint and Facial Recognition verification.
- **mTLS Security & RBAC:** Implemented mTLS for biometric data transfer and architected a JIT provisioning IAM system with Keycloak-to-database role synchronization.
- **Compliance Engine:** Built a dynamic rule-matching engine (AND / OR / Priority logic) automating document renewal, validation and conformity checks.

Technologies: Angular 17, Java SpringBoot, PostgreSQL, PgBouncer, Kubernetes (MicroK8s), Keycloak, Docker, mTLS, JSONB i18n, Node.js, TypeScript, REST

Senior Full Stack Developer | Novencia | November 2021 – April 2023

Microservices Architecture · Authentication Systems · Full Stack Development · DevOps

- **Monolith to Microservices:** Led the redesign of a monolithic application into a modern microservices architecture using Hexagonal/DDD patterns and gRPC for inter-service communication.
- **Keycloak Auth Microservice:** Designed a dedicated Keycloak management microservice covering users, roles, groups, scopes and permissions, integrated as middleware in the Node.js backend with React frontend adapter.
- **CLI Tool (zone4code):** Created a custom CLI enabling CRUD code generation, i18n scaffolding and Git version management — significantly boosting developer productivity.
- **Dynamic Form Builder:** Developed a drag-and-drop dynamic form creation tool, simplifying the development of interactive features across the platform.
- **Document Microservice:** Built a document download microservice supporting dual storage: S3 AWS and MongoDB GridFS for scalable asset management.
- **Micro-Frontend Architecture:** Delivered a micro-frontend setup via Nginx gateway with Storybook 6 component library and full OpenAPI/Swagger documentation.

Technologies: Fastify, Node.js, React (Hooks), Redux Toolkit, SpringBoot, Keycloak, MongoDB, GridFS, Docker, gRPC, REST, DDD, Hexagonal Architecture, TypeScript, Storybook 6, OpenAPI/Swagger

Senior Full Stack Developer | Groupado | July 2019 – October 2021

Cloud Architecture · Microservices · Mobile · Real-Time Features · Payments

- **Expert Course Platform:** Designed and built a full-stack platform for experts to offer indoor/outdoor courses, hosted on AWS with a complete microservices backend and Keycloak SSO.
- **Kubernetes & Keycloak:** Deployed Keycloak with PostgreSQL on Kubernetes, including custom React-built Keycloak themes and full SSO across all platform services.
- **Real-Time Communication:** Built a WebRTC/Jitsi conference application, full messaging system and Firebase push notifications for real-time expert-candidate engagement.
- **Payment Gateway:** Created a unified gateway integrating PayPal, Stripe and Checkout.com with IP-based currency localization for international users.
- **CI/CD & Migration:** Implemented GitLab CI/CD pipelines and led the frontend migration from Angular 9 to React Hooks.

Technologies: React (Hooks), Java SpringBoot, Hibernate, Node.js (Express, Fastify, NestJS), Keycloak, PostgreSQL, Docker, Kubernetes, WebRTC, Jitsi, Firebase, Stripe, PayPal, GitLab CI/CD, TypeScript

Frontend Developer | Target LLC | July 2017 – May 2019

Data Visualization · Design Systems · Mobile · GraphQL · IoT Dashboards

- **IoT Sensor Dashboard:** Built real-time dashboards for oil production sensor data with role-based shared boards for internal company teams.
- **Route Optimization App:** Developed a truck delivery route optimization application improving logistics efficiency for oil field operations.
- **Design System & Storybook:** Created a full design system with color tokens and typography, and a Storybook component library for UI consistency.
- **GraphQL & Redux:** Implemented GraphQL with Apollo Client and Redux with reselect entity approach for efficient cross-application state synchronization.
- **Mobile App (PDO Oman):** Developed an Angular/Ionic mobile application for PDO Oman field agents to track sensitive operational data on the go.

Technologies: *React.js, Redux, Apollo, GraphQL, Webpack, Babel, ES6, MUI, Angular, Ionic, Heroku, Google Cloud, Figma, Storybook*

Web & Mobile Developer | Streamerz | January 2015 – May 2017

Frontend Development · CMS · Mobile Applications · Full Stack Integration

- **Dynamic Web Development:** Designed and developed dynamic websites and showcase sites with precise PSD/PDF template integration in HTML/CSS3, fully W3C compliant.
- **CMS Administration:** Administered WordPress and Joomla platforms, developing custom modules and managing OVH hosting for multiple client projects.
- **Competition Apps:** Delivered interactive competition game applications for Swiss companies combining custom frontend and backend integration.
- **Mobile & Booking Platform:** Built cross-platform mobile apps with Cordova and Ionic, and a PHP5/AngularJS booking app later migrated to Angular 2.

Technologies: *HTML5, CSS3, PHP5, AngularJS, Angular 2, Ionic, Cordova, WordPress, Joomla, OVH Hosting*

EDUCATION

- **2017** — IT Engineer, UAS
- **2015** — Master's Degree in Command System
- **2013** — Applied License in Technology, Multimedia & Web Development
- **2010** — Bachelor's Degree in Computer Science

LANGUAGES

- **English:** Fluent
- **French:** Fluent
- **Arabic:** Native