

FIRAS FRANÇOIS ABED EL NABI

TECH LEAD & FULL-STACK ENGINEER | JAVA | ANGULAR | DDD/HEXAGONAL

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SUMMARY

Tech Lead with 9 years building complex enterprise software, leading a team of 5 at Adobis Group (Grenoble). Over four years there I have moved new services off an inherited Java monolith onto DDD and Hexagonal boundaries, and built the tooling the platform's business users work in daily - a visual composer for automation workflows and an IDE-style editor for the formulas Spark evaluates over their data.

PhD in Computational Material Science turned engineer. Outside work I build and self-host my own AI-assisted development tooling on a Linux VPS.

EXPERIENCE

Adobis Group - Grenoble, France
Tech Lead & Full-Stack Developer

August 2021 - Present

Leadership & architecture

- Lead a team of 5 developers: sprint planning, code review, mentoring, and onboarding
- Built and ran the training programme for new joiners, pairing them through the architecture - 4 engineers onboarded to date
- Untangled business logic inherited in a monolithic Java backend: set DDD + Hexagonal boundaries for every new service, wrote the reference implementation, and drove adoption through pairing sessions
- Defined the front-end architecture on Ports & Adapters - NgRx for state, RxJS for streams, ImmutableJS and Immer for immutability
- Restructured the front end into an Nx monorepo of 5 applications so micro-frontends build and release independently
- Removed the AngularJS dependency, end-of-life since 2021, by migrating 7 legacy modules to Angular over 18 months
- Ran Scrum ceremonies (standups, poker planning, retrospectives, backlog management); gathered requirements directly from customers and produced proofs of concept

Delivery

- Replaced raw text files as the way business users author domain rules: an IDE-style editor with a from-scratch Lezer grammar, CodeMirror integration, domain-aware autocomplete and live validation, for the formulas Spark evaluates over their dataframes
- Built the workflow module where automation processes are composed visually and configured per task (JointJS), replacing hand-coded process definitions
- Ended the duplicated, inconsistent UI components each team was maintaining: a Storybook-documented Angular Material library of 23 shared components (15 atomic, 8 integration), with contribution guidelines, versioning and adoption sessions
- Integrated Keycloak as the authentication server for hundreds of users across 5 tenants - full OAuth2/OIDC lifecycle plus a custom OAuth2 token mapper

Technical environment: Java 11/17/21, Spring Boot/MVC/Security/Data, Hibernate, Redis, Scala, Spark, Mockito | Angular, TypeScript, NgRx, RxJS, ImmutableJS, Immer, Angular Material, JointJS, AngularJS, Backbone, Nx | Keycloak, OAuth2, OIDC, Docker | Storybook, Jest, Karma, Jasmine, Mocha

Independent Engineering & Self-Hosting - Personal projects

2024 - Present

- Build and run my own developer tooling - code-generation scripts, test scaffolding and documentation generators - driven by Claude Code with custom agents and MCP integrations
- Use the same pipeline for prototyping and architectural exploration, keeping architecture, domain modelling and production-critical decisions under human ownership
- Evaluate AI tooling on the code quality, maintainability and correctness it produces, not on output volume
- Run personal and professional applications on a self-managed Hostinger VPS - Linux, deployment, domains, DNS, SSL/TLS and server configuration
- Automate deployment and maintenance with scripting and CI/CD workflows

Technical environment: Linux, Docker, CI/CD pipelines, Bash, Python | Claude Code, MCP, custom agents

Capgemini-Sogeti High Tech - Grenoble, France
Full-Stack Consultant

July 2018 - August 2021

Client: EATON - Intelligent Power Manager (IPM2)

- Built real-time energy dashboards for UPS-backed data centres and facilities, including Eaton's own Grenoble-Montbonnot site - live consumption with facility- and device-level drill-down
- Kept those views consistent under continuous data streams using NgRx state management and RxJS reactive flows
- Coordinated work packages across back-end and firmware teams

Technical environment: Angular, TypeScript, AngularJS, NgRx, RxJS, ImmutableJS, Immer, Angular Material

Client: Schneider Electric - Wiser Energy

- Built interfaces for energy consumption monitoring and photovoltaic production tracking in residential installations, delivered as internal and end-user applications across EMEA
- Delivered home automation for Bluetooth Low Energy actuators - light bulbs and shutters - through a web application deployed to Android and iOS
- Shipped two product front-ends: WiserEnergy (AngularJS) and WiserOne (Angular)

Technical environment: Java 8 | React, Angular, TypeScript, AngularJS, NodeJS, ThreeJS | Ionic Cordova

WISEO Technologies - Grenoble, France

March 2017 - June 2018

Full-Stack Consultant

Client: Politecnico di Milano - SPARK (Spatial Augmented Reality as a Key for co-creativity)

- Full-stack developer on an EU research project projecting 3D designs onto 3D-printed physical models in real time
- Built back-end services on Spring MVC/Data with Apache Storm for stream processing
- Built the front-end rendering pipeline in AngularJS and ThreeJS
- Integrated heterogeneous components over message-oriented middleware (ActiveMQ), bridging Java and C# subsystems

Technical environment: Spring MVC, Spring Data, Apache Storm, JPA/Hibernate, SQL, Elasticsearch | AngularJS, ThreeJS, Gradle, Gulp | C#, ActiveMQ

SELECTED PROJECTS

Spark formula DSL editor (Adobis) - From-scratch Lezer grammar + CodeMirror; replaced raw text files for business users authoring rules

Visual workflow engine (Adobis) - Visual composition of automation processes with per-task configuration, replacing hand-coded definitions

Design system library (Adobis) - 23 shared components (15 atomic, 8 integration), Storybook-documented, adopted by every front-end team

Nx micro-frontend architecture (Adobis) - Monorepo spanning 5 apps on Ports & Adapters; carried the AngularJS to Angular migration of 7 modules

AI-assisted dev tooling (personal) - Code generation, test scaffolding, and documentation generators, self-hosted on a Hostinger VPS

TECHNICAL SKILLS

Expert - Java (11/17/21), Spring Boot, Spring MVC, Spring Security, Spring Data, Hibernate | Angular, TypeScript, RxJS, NgRx |DDD, Hexagonal Architecture, Ports & Adapters

Working - PostgreSQL, MySQL, Redis, Elasticsearch | Keycloak, OAuth2, OIDC | Nx, Docker, GitLab CI, Jenkins | JUnit, Mockito, Jest, Karma, Jasmine, Mocha, Storybook | NodeJS, React, NextJS, NestJS | JointJS, ThreeJS, D3JS | Python, Bash

Familiar - Scala, Spark | MongoDB, Neo4J | C#, ActiveMQ | Vite, Webpack, Rollup, Gradle

EDUCATION

PhD, Computational Material Science | Université de Poitiers / Institut PPRIME, France 2012 - 2016

MSc, Particle Physics | Université Grenoble Alpes (Joseph Fourier), France 2009 - 2012

Java Software Developer Bootcamp | M2I, Grenoble, France 2016 - 2017

LANGUAGES

French - Native | English - Fluent | Arabic - Fluent | German - Intermediate