

HAZEM BEN KHALFALLAH

Software Architect at MC

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WORK EXPERIENCE

Software Architect

M&C (NCQ-DevStudio Consultant, later full-time employee)

📅 August 2022 – Present 📍 Tunis, Tunisia

As a software architect, I designed and implemented the ADAD payment reconciliation platform, tailored specifically for the airline industry. ADAD is an agnostic, end-to-end solution that integrates seamlessly with the airline payment and finance ecosystem, automating the validation and reconciliation of transactions across various payment providers, bank accounts, and platforms.

- Designed and implemented a scalable, event-driven architecture.
- Defined and enforced the platform’s technical vision and roadmap.
- Ensured software quality through automated testing and best practices.
- Mentored developers and championed software craftsmanship principles.
- Effectively communicated technical decisions with stakeholders.

Practices: Clean Code, Hexagonal Architecture, EDA, DDD, BDD, ATDD, TDD
Tech Stack: Java, Spring, PostgreSQL RDS, ActiveMQ

Technical architect

Marjory.io (NCQ-DevStudio Consultant)

📅 December 2018 – December 2021 📍 Tunis, Tunisia

As a consultant from NCQ-DevStudio embedded within Marjory, I served as a software architect. Marjory is an iPaaS and data-integration platform designed for SMBs to integrate legacy systems and SaaS applications. My team was responsible for developing the BPMN workflow engine used to design, deploy, and manage workflow instances, streamlining the integration process and lifecycle management.

- Led the development of a custom BPMN workflow engine, enhancing platform performance and integration efficiency.
- Guided the team through agile processes, ensuring smooth project execution and timely delivery.
- Collaborated with stakeholders and the product owner to align on project goals and progress.

CTO

NCQ-DevStudio

📅 December 2018 – September 2024 📍 Tunis, Tunisia

I lead the technical vision of the company while remaining deeply involved in client projects as a software architect. My role spans hands-on collaboration with startups, SMEs, and large enterprises, where I design and implement cloud-native, user-focused solutions, particularly in B2B and B2C marketplaces and airline reconciliation systems. At NCQ-DevStudio, we emphasize technical excellence and agile methodologies to create products that genuinely impact users. By prioritizing quality, collaboration, and transparency, I ensure that our teams deliver high-standard solutions at every stage, enabling our clients to scale and innovate with confidence.

- Lead technical vision and strategy for the company.
- Collaborate with startups, SMEs, and large enterprises on cloud-native, user-focused solutions.
- Design and implement solutions for B2B and B2C marketplaces, and airline reconciliation systems.
- Promote and enforce agile methodologies across all teams.
- Manage and recruit technical teams, ensuring the right talent and capabilities.
- Take ownership of software architecture and ensure delivery of high-quality solutions.
- Communicate effectively with stakeholders to ensure alignment and success.

SOFT SKILLS

Agile Methodologies DDD BDD ATDD
TDD Team Management Team Leadership
Continuous integration Continuous delivery

TECHNICAL SKILLS

Paradigms
Clean code | Hexagonal architecture | Event Driven Architecture | DDD | BDD | ATDD | TDD

Languages
Java | Typescript | Javascript | Python

Frameworks
Spring (Spring Boot, Spring Data, Spring Security, Spring REST, Spring for Apache Kafka) | NestJs | Keycloak | JBPM | AngularJs | JEE | Play! Framework | Android | Oracle ADF 11g

Testing Tools
JUnit, Mockito, AssertJ, REST-Assured

Relational Databases
Postgresql | Mysql | Oracle Database | SQLite

NoSql Databases
MongoDB | Elastic Search | REDIS

Messaging Platforms
ActiveMQ, RabbitMQ, Apache Kafka | Pubnub | SNS/SQS

Tools
Git | Docker | Maven | Gradle | SBT | Subversion | Jenkins CI | Travis CI | github CI | Gitlab CI

Cloud services
Heroku | Amazon AWS

CERTIFICATIONS

Certified Scrum Master® (CSM®)
📅 12/2017 – 12/2019
Certificate issued by Scrum alliance.

Functional Programming Principles in Scala
📅 2013 - Present
Online course on Coursera by Martin Odersky.

EDUCATION

Computer Science Engineering Degree
National Engineering school of Tunis
📅 2008 – 2010

Tunis Engineering Manager

Influans

📅 July 2018 – December 2018

📍 Tunis, Tunisia

Influans' cloud platform enables brands and retailers to deliver personalized campaigns targeting the right audience with tailored offers.

- Led and developed a cross-site engineering team (Tunis and Paris).
- Removed obstacles and protected the team from interruptions to ensure focus.
- Guided the team towards autonomy and continuous improvement.
- Managed delivery pace through agile processes (sprints, stand-ups, retrospectives, etc.).
- Coordinated with stakeholders, Scrum Masters, and Product Owners on synchronization, deadlines, and progress.
- Facilitated communication between the backend team and data engineering data science teams responsible for campaign targeting models.
- Conducted one-on-one feedback sessions and annual/mid-year reviews.

Team Lead | Scrum Master

Influans

📅 July 2016 – June 2018

📍 Tunis, Tunisia

Influans' cloud platform enables brands and retailers to execute personalized campaigns, targeting the right audience with the right offer.

- Lead and develop the engineering team at the Tunis site, fostering a collaborative and high-performance culture.
- Drive daily delivery progress through agile methodologies, including sprints, ceremonies, and daily stand-ups.
- Design, build, and maintain scalable, reusable, and efficient code to ensure platform reliability.
- Provide day-to-day project guidance, ensuring alignment with team goals and timelines.
- Contribute as an individual engineer, dedicating approximately 50% of time to direct technical contributions.
- Facilitate communication between stakeholders and cross-functional teams to synchronize work, manage deadlines, and track project progress.

Senior Developer

Influans

📅 November 2015 – June 2016

📍 Tunis, Tunisia

Influans' cloud platform empowers brands and retailers to implement highly personalized campaigns, targeting the right audience with the right offers.

- Develop the 'Campaign Manager' onboarding system, integrating CSV, FTP, Dropbox, and e-commerce connectors.
- Mentor junior developers to align with sprint goals and produce high-quality code.
- Conduct code reviews and provide guidance on best coding practices.
- Estimate new feature development efforts and assess their potential impact on the platform.

Team lead

Pinhole

📅 March 2014 – October 2015

📍 Tunis, Tunisia

Pinhole is a Tunisian start up specialized in catch-up TV and video on-demand applications.

- Develop movies / kids / series / configuration and launcher applications for android TV Boxes.
- Develop RevBox management web application for sales and stock management.

🚩 LANGUAGES

French
English



“ REFEREES

Nicolas Peidro - Senior Manager at Zoī

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Johnny Mkhael - Principal architect at Murex

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- Develop RevBox remote control backend application that offers a REST API to get and search movies and series.
 - Develop RevBox voice control application that enables searching for content via voice commands.
 - Configure and manage ElasticSearch, backend and database servers.
 - Control deployment on test and production servers.
 - Push new versions remotely to all sold RevBox devices.
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Full stack developer

Pinhole

 January 2013 – February 2014  Tunis, Tunisia

Pinhole is a Tunisian start up specialized in catch-up TV and video on-demand applications.

- Develop application REST API.
 - Develop an Akka based real time chat system.
 - Develop and integrate an advanced web video player (it enable playing videos, display pre-roll and in-roll ads, comment a precise video moment, autoplay)
 - Develop Pinhole administration app.
 - Add features to Pinhole ads application.
 - Configure Elastic search server and develop search functionalities (autocomplete and advanced search)
 - Monitor Heroku, Amazon AWS and database server
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Java/JEE developer & Oracle ADF Trainer

B.G.I.

 September 2010 – December 2012  Tunis, Tunisia

B.G.I is a company specialized in Software solutions development. It is well known in the Tunisian hotel and banking industry circles.

- Develop a Java/JEE Human Resources Management Application.
- Train experienced Java developers to build Oracle 11g ADF (Application Data Framework) applications.
- Prepare course on how to develop, test, and deploy fully functional ADF Web applications.
- Bring guidance and assist technical teams working on ADF projects.