

# Ahmed Khlif Software Engineer

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## SUMMARY

Software Engineer holding an Engineering Degree in Software Engineering & Decision Intelligence and a Professional Master’s Degree in Software Engineering & New Technologies. Full-stack developer specialized in AI-powered applications and scalable web/mobile systems. Experienced with React, NestJS, Flutter and Python, building RESTful APIs and production-ready solutions. Interested in LLM applications and DevOps.

## SKILLS

**Languages:** Java, Python, TypeScript, JavaScript  
**Frontend:** Flutter, React, Next.js, Angular  
**Backend:** Spring Boot, NestJS, Node.js, FastAPI  
**Databases:** PostgreSQL, MongoDB, Firebase, Redis  
**Artificial Intelligence:** LLM Integration, Langfuse, NLTK, LangChain, FAISS  
**DevOps & Tools:** Docker, Git, GitLab, CI/CD, Jenkins, Terraform

## PROFESSIONAL EXPERIENCE

**Full-Stack Developer — PFE Intern | Tawer Digital Group** 01/2026 – 06/2026 | Sfax, Tunisia

- Architected the TDG Management Platform, consolidating project execution, time tracking, and infrastructure monitoring into a single workspace across **2 business units**.
- Designed a granular role-based access control system covering **12 user roles**, with scoped permissions enforced across modules.
- Integrated Google’s Gemini API into an AI planning assistant for task estimation and sprint prioritization, while keeping AI features advisory-only.
- Built a multi-channel notification engine and automated quality assurance with **626 E2E tests** achieving **94.23% code coverage**.
- Automated production delivery through a **4-stage Jenkins CI/CD pipeline**, from source control to deployment.

Tech stack: Next.js, NestJS, TypeScript, Prisma, PostgreSQL, Firebase, Grafana K6, Redis, Nginx, Jenkins, Docker

**Full-Stack Developer — PFE Intern | Djaqora Foundation** 01/2024 – 06/2024 | Sfax, Tunisia

- Architected iDigix, an online profile management platform, onboarding **47 member profiles** during the pilot phase.
- Built a scalable and secure backend handling **500+ requests/day** with an average response time of **180ms**.
- Optimized profile search and filtering across 12+ attributes, reducing average lookup time from 25s to **under 10s**.
- Deployed and maintained the platform in production, achieving **98.7% uptime** over 4 months with zero critical incidents.

Tech stack: React, ASP.NET Core, SQLite, Docker, Nginx, Jenkins

**Full-Stack Developer — Intern | Djaqora FabLab** 06/2023 – 08/2023 | Sfax, Tunisia

- Developed a professional CV management platform, deployed to **34 FabLab members** for instant profile sharing via a single contactless tap.
- Reduced profile-sharing time from roughly 30s (manual card exchange) to **under 3s** per interaction.
- Enabled real-time profile updates synced across shared cards, removing the need for reprints and cutting related material costs by an estimated **90%**.
- Ran a 2-week pilot with the FabLab team, iterating on 3 rounds of feedback before final handover.

Tech stack: React, Node.js, Express.js, NFC, MongoDB, Docker

## FREELANCE EXPERIENCE

**Full-Stack Developer / AI Engineer — Part-Time** 05/2023 – Present | Sfax, Tunisia

- Built an AI chatbot using Flask and React, and NLP techniques (NLTK, TF-IDF, Word2Vec, FastText) with ML models (Naive Bayes, KNN), achieving **78%** autonomous resolution of student administrative queries without human intervention.
- Platform for event planning with task management, real-time chat, polls, and notifications; Kanban boards, role-based permissions, analytics.
- Built a full-stack sales analytics platform, integrating a SQL Server data warehouse and SSAS multidimensional cube with a NestJS API and Next.js dashboard featuring interactive analytics, global filtering, and export capabilities.

CERTIFICATIONS

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|-------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Machine Learning with Python — CDOSS (Certificate)</b><br>Supervised/unsupervised learning, data preprocessing, model evaluation | May 2025 |
| <b>Scrum Fundamentals Certified (SFC™) — SCRUMstudy</b><br>Scrum framework, Agile principles, SBOK® Guide   Certificate ID: 1015805 | Feb 2024 |

EDUCATION

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|---------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <b>Engineering Degree in Software Engineering &amp; Decision Intelligence</b><br>International Institute of Technology                | 2024 - 2027 |
| <b>Professional Master’s Degree in Software Engineering and New Technologies</b><br>Higher Institute of Technological Studies of Sfax | 2024 - 2026 |
| <b>Bachelor’s Degree in Information Systems Development</b><br>Higher Institute of Technological Studies of Sfax                      | 2021 - 2024 |

LANGUAGES

|                   |                    |                       |
|-------------------|--------------------|-----------------------|
| • Arabic (Native) | • English (Fluent) | • French (Proficient) |
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