

PROFESSIONAL PROFILE

Junior Software Engineer specializing in Full-Stack Development, Cloud-Native Architecture and Artificial Intelligence integration. Experienced with React, Next.js, Node.js, NestJS, FastAPI, Spring Boot and Django. Skilled in Docker, CI/CD pipelines, microservices, REST APIs, PostgreSQL, MongoDB and DevOps tools. Certified in AI (IBM), AWS Cloud and Agile methodologies. Able to drive projects end-to-end, from design to deployment and documentation.

PROFESSIONAL EXPERIENCE

Software & Data Engineering Intern

Capgemini · Tunis, Tunisia

Feb. 2026 – Present

- Led the optimization of software test automation using Artificial Intelligence.
- Designed and implemented AI pipelines to automatically generate, prioritize and maintain test suites.
- Integrated quality dashboards into CI/CD workflows for real-time reporting and monitoring.

Python AI/ML CI/CD Jenkins Grafana Test Automation

Full-Stack MERN Developer

Hellenic Cables · Tunis, Tunisia

June – August 2025

- Developed a real-time monitoring dashboard for tracking industrial machine status and performance.
- Implemented a complete ticketing system (submission, assignment, tracking, resolution) integrated into the dashboard.
- Developed RESTful APIs with Node.js/Express; responsive front-end interface with React.

MongoDB Express.js React Node.js WebSocket REST API

Cybersecurity Compliance Analyst Intern

BH Bank · Tunis, Tunisia

June – August 2024

- Audited internal systems against the ISO 27001 framework.
- Produced vulnerability assessment reports with concrete mitigation strategies.
- Collaborated with IT and legal teams to align security policies with regulatory requirements.

ISO 27001 Cybersecurity Risk Assessment GDPR

Web Developer Intern

Safran · Tunis, Tunisia

June – July 2022

- Designed and developed the architecture of a web e-commerce platform.
- Produced technical documentation covering system design, data flows and API structure.

PHP HTML/CSS JavaScript MySQL

EDUCATION

Computer Engineering Degree

ESPRIT — Private Higher School of Computer Science · Tunis, Tunisia

2021 – 2024

Scientific Baccalaureate

Avicenne Private High School · Tunis, Tunisia

2020 – 2021

TECHNICAL SKILLS

Languages	C, C++, Java, PHP, SQL, JavaScript, TypeScript, Python, Bash	Frontend	React, Next.js, Angular, HTML5, CSS3, Tailwind CSS, Bootstrap
Backend	Node.js, NestJS, FastAPI, Spring Boot, Django, Symfony, Laravel	Databases	PostgreSQL, MongoDB, MySQL, Neo4j, Firebase, H2, Redis
AI & Machine Learning	OpenAI API, RAG, Qdrant, Groq, Ollama, Qwen, PyTorch	Tests & QA	Playwright, Cypress, Selenium, QA Automation
DevOps & Cloud	Docker, Jenkins, CI/CD, SonarQube, Grafana, Redis, Celery	Architecture	Microservices, REST API, Cloud-Native, Event-Driven
Tools	Git, GitHub, Prisma ORM, Jira API, JavaFX, FlutterFlow		

ACADEMIC PROJECTS

AI-Powered QA Platform

[Next.js](#) · [NestJS](#) · [FastAPI](#) · [Playwright](#) · [Jira API](#)

Intelligent platform automatically generating test cases and automation scripts from Jira tickets and project specifications. Includes a review workflow and an execution pipeline via Playwright.

AI E-Learning Platform

[MongoDB](#) · [Express.js](#) · [React](#) · [Node.js](#) · [WebSocket](#) · [CI/CD](#) · [Machine Learning](#)

Facial recognition, emotion detection, GitHub/Google Classroom recommendation system, real-time WebSocket chatroom, AI chatbot, Google OAuth and full CI/CD deployment.

Microservices Architecture Platform

[Spring Boot](#) · [Angular](#) · [Docker](#) · [RabbitMQ](#) · [Keycloak](#) · [PostgreSQL](#) · [MongoDB](#)

Distributed system with API Gateway, Keycloak SSO, RabbitMQ messaging and mixed SQL/NoSQL persistence.

AI Art Gallery

[Django](#) · [PyTorch](#) · [OpenAI API](#) · [PythonAnywhere](#)

AI chatbot, image generation and editing, background removal, artist classification model and price estimation. Deployed on PythonAnywhere.

Donation Platform

[Laravel](#) · [Stripe API](#) · [AlwaysData](#)

Stripe payment integration and AI chatbot connected to a live database for donation statistics and event information.

Football Tournament Management System

[Symfony](#) · [FlutterFlow](#) · [JavaFX](#)

Multiplatform system (web, desktop, mobile) for managing matches and teams, automated scheduling, administration dashboard and real-time notifications.

C E R T I F I C A T I O N S

- ▶ AI Literacy – IBM
 - ▶ AWS Cloud Fundamentals – Amazon Web Services
- ▶ Hashgraph Developer Certification – The Hashgraph Association
 - ▶ Agile Explorer – IBM SkillsBuild

L A N G U A G E S

Arabic — Native language **French** — Fluent (professional) **English** — Fluent (professional)

S O F T S K I L L S

- Teamwork

Time management

Communication

Initiative

Creativity

Problem solving

Adaptability
- Attention to detail

Collaborative mindset