

Khalil Ghimaji

Software Engineering Student

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Professional Summary

A dedicated student at INSAT in Tunisia, driven by an unyielding curiosity and a passion for continual learning. My journey encompasses a broad spectrum of interests, from full stack development and competitive programming to artificial intelligence, all within the dynamic field of software engineering. I am committed to honing my skills and staying abreast of the latest advancements, ensuring that I remain at the cutting edge of innovation.

Professional Experience

Mobile Developer Intern

July - August 2024

SMARTUP 3S

As a mobile developer intern at SMARTUP, I undertook the development of a mobile application aimed at streamlining leave management and enhancing employee attendance tracking.

- Developed user-friendly interface and integrated functionality for leave and attendance tracking using Flutter.
- Integrated Firebase for secure authentication.
- Enhanced UX and streamlined HR administrative processes.

AI & Software Intern

July - August 2025

SMARTUP 3S

Developed a web platform for invoice parsing using OCR and Vision-Language Models.

- Built secure upload system and RBAC-protected interface (Next.js, Postgres)
- Integrated Tesseract OCR and Llama4vision for invoice data extraction.
- Delivered dashboards with invoice analytics.

Education

Software Engineering Degree

2022 - present

INSAT, Tunis

Technical Skills

Languages	Python, JavaScript, TypeScript, Java, C++, PHP
Frontend	React, Next.js, UI/UX Design, Responsive Design
Backend	NestJS, ASP.NET, Symfony, Django, FastAPI
APIs	GraphQL, REST API, WebSocket, SSE
Databases	PostgreSQL, MongoDB, MySQL, SQLite
AI/ML	Supervised ML, Unsupervised Learning, Recommenders, Reinforcement Learning, Keras

Key Projects

Medical Management System

2025

NestJS, Next.js, GraphQL, REST API, WebSocket, AI

Complete medical workflow (consultations, appointments, analyses, prescriptions, and record management) platform with real-time features, RAG-Based Medical Chatbot providing empathetic support and directing patients to appropriate medical specialist, OCR for medical documents parsing, and integrated doctor-finder map to locate doctors by specialty, availability, and proximity.

SusNet

2025

Machine Learning, Deep Learning

AI-powered tool detecting anomalies in network traffic – built during Samsung Innovation Campus AI Program.

Mini-ERP ASP.NET

2025

ASP.NET, C#, SQL Server

Modular ASP.NET ERP system with independently structured service projects (sales, invoicing, stock, customers) coordinated by a central orchestrator. Services shared a common database layer for unified data access.

Interim Corporation Website

2024

PHP, Symfony, MVC

Built initially using native php then migrated to Symfony optimizing overall performance with MVC architecture.

Java E-Commerce Application

2023

Java, OOP, Console Architecture

First end-to-end Java project focusing on OOP and core software engineering principles.

Languages & Soft Skills

Languages: Arabic (Native), French (Advanced), English (Fluent)

Soft Skills: Problem Solving, Teamwork, Communication, Leadership

Certifications & Awards

- Machine Learning Specialization – Stanford University: Supervised ML, Advanced Learning Algorithms, Unsupervised Learning, Recommenders & Reinforcement Learning
- Samsung Innovation Campus Artificial Intelligence Program
- Nvidia Computer Vision for Industrial Inspection
- Meta Front-End Developer Specialization
- Meta Back-End Developer Specialization