

SANA CHOUIKHI

Software Engineer — Full-Stack & Backend — ERP, Cloud & DevOps

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Tunis, Tunisia

Summary

Software Engineer specializing in full-stack development, with a strong focus on building scalable, reliable, and production-grade systems. Experienced in designing end-to-end solutions – from backend architecture and REST API design to modern, user-centric interfaces – across ERP platforms, cloud infrastructure, and real-time applications. Skilled in translating business requirements into robust technical solutions, with hands-on expertise in CI/CD automation, Dockerized deployments, and production monitoring. Proven ability to deliver reliable software in remote, cross-functional, and international environments.

Skills

ERP & Automation: ERPNext, Frappe Framework, n8n, Workflow Automation, Business Process

Backend Engineering: Python, Django REST Framework, Node.js, Express, REST APIs, System Design, Java

DevOps & Cloud: Docker, Docker Compose, GitHub Actions, OVHcloud VPS, AWS, Linux Administration

Infrastructure & Security: HashiCorp Vault, DNS Management, SMTP, SPF, DKIM, DMARC, SSL/TLS, Linux Hardening, Access Control

Observability: Prometheus, Grafana, Loki, Wazuh

Databases: MariaDB, MySQL, MongoDB, Redis, SQLite, Firebase

Frontend: React.js, Angular, TypeScript, JavaScript, Tailwind CSS, Bootstrap, HTML/CSS

Mobile & IoT: Flutter, React Native, Android, MQTT, RTSP, Arduino, Raspberry Pi

Tools & Methods: Git, GitHub, GitLab, Jira, Agile/Scrum, Clean Architecture, Code Review

Experience

Software Engineer

April 2025 – Present

Arkeyez

Tataouine, Tunisia (On-site)

- Build and deploy **ERP and SaaS solutions** on cloud infrastructure for enterprise clients.
- Develop and integrate **REST APIs** connecting ERPNext modules with third-party services for seamless data exchange.
- Automate business workflows using **n8n**, reducing manual processing time by **80%**.
- Manage **CI/CD pipelines** and Docker-based deployments via GitHub Actions; maintain production infrastructure (Nginx, MariaDB, Redis) on OVH VPS.
- Set up monitoring and observability (Prometheus, Grafana, Loki); enforce **security best practices**, access control, and secure email infrastructure (SMTP, SPF, DKIM, DMARC).
- Produce and maintain technical documentation to support knowledge transfer and long-term maintainability.

Full-Stack Developer (Web & Mobile)

September 2024 – February 2025

Freelancer.com

Remote

- Designed and developed multiple **production-grade web and mobile applications** for international clients across various industries.
- Built backend systems using Django REST Framework and Node.js/Express, and frontends with React.js and Flutter; integrated third-party APIs (payment, messaging, mapping).
- Deployed applications on cloud platforms including **AWS**, ensuring scalability and reliability.
- Collaborated within Agile methodologies across international, cross-functional teams; managed Git workflows and code reviews.

Software Engineering Intern – Final Year Project

February 2024 – July 2024

Enova Robotics

Sousse, Tunisia (On-site)

- Architected and developed **P-Guard-Track**, a real-time web monitoring platform for a fleet of autonomous security robots, using React.js, Node.js, MongoDB, and Python.
- Implemented real-time robot tracking and status monitoring, using MQTT for command/control and RTSP for low-latency video streaming.

- Designed interactive dashboards for performance analysis, alerts, and optimization, improving operational decision-making by **40%**; automated generation of PDF/Excel maintenance reports.
- Recognized for project delivery, autonomy, and teamwork in an official end-of-internship recommendation letter.

Mobile Application Developer Intern

July 2023

Online VIP Consulting

Ariana, Tunisia (Remote)

- Designed and developed **Jban-Mobile**, a banking mobile application for financial transaction management using React Native, and updated the web version for the French market.
- Built user interfaces and integrated REST APIs for account access and transaction management; collaborated with remote backend teams to optimize API contracts and reduce integration errors.

Mobile Application Development Intern

July 2022

Tunisie Telecom

Medenine, Tunisia (On-site)

- Designed and developed **MyGestCom**, a GSM site management application using Flutter, Node.js, and MySQL, with interactive maps to add, modify, delete, and visualize sites.
- Built modules for network equipment management, user profiles, and employee/complaint-handling; reduced field engineers' issue reporting time by **50%**.

Final Year Project – Cross-Platform E-Learning Platform

February 2021 – June 2021

Sindibad Group

Sousse, Tunisia

- Designed and built a **full-stack, cross-platform e-learning platform** (Flutter front-end, Node.js back-end) enabling real-time virtual classrooms during the COVID-19 shift to remote learning, running seamlessly on **web, mobile, and tablet**.
- Implemented real-time audio/video communication using **WebRTC**, along with a collaborative whiteboard, live chat, and screen sharing for an immersive online teaching experience.
- Adopted by hundreds of students; backend built with Node.js, Socket.io, and MySQL to support real-time communication at scale.

Advanced Internship – Management System

January 2020 – February 2020

Institute of Arid Regions

Medenine, Tunisia

- Developed a full-stack internal management system (PHP, Bootstrap, MySQL) supporting employee management and equipment tracking, significantly reducing manual record-keeping and search time.

Introductory Internship – Website Development

January 2019 – February 2019

Regional Directorate

Medenine, Tunisia

- Built a responsive institutional website using HTML, CSS, Bootstrap, and JavaScript.
- Optimized site performance for fast loading and accessibility.

Education

Engineering Degree, Computer Engineering

Sep 2021 – Jul 2024

ISSAT Sousse – Higher Institute of Applied Sciences and Technology

Sousse, Tunisia – Grade: Very Good

Applied Bachelor's Degree, IT – Embedded & Mobile Systems

Sep 2018 – Jun 2021

Higher Institute of Technological Studies of Medenine

Medenine, Tunisia – Grade: Excellent

Certifications

Full-Stack App Development with Frappe Framework – Frappe, 2025

Certificate of Participation – Embedded C Workshop – Higher Institute of Computer Sciences in Medenine, 2020

Certificate of Participation – Python Workshop – ISET Medenine, 2020

Online Completion Certificate – JavaScript, Bootstrap & PHP – Udemy, 2020

Introduction to Packet Tracer – Cisco, 2020

Introduction to IoT – Cisco, 2020

Microsoft Office Excel 2016 Certificate – Microsoft, 2019

Microsoft Office PowerPoint 2016 Certificate – Microsoft, 2019

Microsoft Office Word 2016 Certificate – Microsoft, 2019

Languages

Arabic: Native	French: Fluent	English: Professional Working Proficiency	German:
Limited Working Proficiency			