

# Salah Bounouh | Software Engineer

Email: salah.bounouh420@gmail.com | Phone: (+216) 28 115 486 | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

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## Professional Summary

Computer Science Engineer (ESPRIT, 2025) who designs reliable backend systems and delivers end-to-end web products. Core stacks are Node.js/TypeScript and Java/Spring Boot, with hands-on experience containerizing applications with Docker and automating deployments through CI/CD pipelines. Passionate about solving real-world problems and continuously improving software quality.

## Education

### Engineering Degree in Computer Science (Diplôme d'Ingénieur, Master's-level equivalent)

ESPRIT · Tunis, Tunisia · 2025

Concentration: Full-Stack Development.

## Experience

### Key Object — Intern

Tunis, Tunisia · May 2025 – Oct 2025

- Fine-tuned a Flan-T5 model with LoRA/PEFT on a custom resume dataset to extract structured fields (skills, education, experience); achieved over 80% extraction accuracy on key fields such as skills and education.
- Built preprocessing and inference scripts; deployed the model as a REST endpoint integrated into the ERP recruitment module.
- Developed a Django recruitment dashboard to manage jobs and candidate evaluations; implemented a scoring algorithm to rank applicants against job requirements, reducing manual screening time by approximately 60%.

### IPACT — Intern

Tunis, Tunisia · Jun 2024 – Aug 2024

- Implemented project management modules (Spring Boot + Angular) including KPI dashboards and archival workflows; optimized archival queries in MongoDB, improving retrieval times.
- Configured Jenkins pipelines for automated build/test/deploy stages, cutting the release cycle from manual deployments to fully automated pipelines.

### Devzone International — Intern

Tunis, Tunisia · Jul 2023 – Aug 2023

- Customized multiple Odoo ERP modules using Python to meet client-specific business requirements; handled deployments and ongoing module maintenance across client systems.

## Projects

### Medical Clinic Platform (React, Node.js, WebRTC, Solidity)

- Built a telemedicine app with real-time WebRTC video calls and Socket.IO signaling; secured medical record access using Solidity smart contracts deployed to an Ethereum testnet.

### AI-Powered Image Platform (Next.js, Firebase)

- Implemented image generation via DALL·E and SDXL APIs with Stripe-based payments and social features for image sharing and user engagement.

### E-commerce — Men's Clothing (Node.js, TypeScript, React)

- Designed a modular backend using Clean/Hexagonal architecture with REST APIs for product, catalog, cart, and order management; implemented JWT authentication and Stripe payment integration.
- Built a React + Vite admin dashboard for product management and sales KPIs; containerized the full stack for CI/CD.

## Skills

**Languages:** JavaScript, TypeScript, Java, Python, Solidity.

**Frontend / Backend:** React, Next.js, Angular, Node.js, Spring Boot, Django.

**DevOps / CI:** Jenkins, Docker, Docker Compose, Nexus, SonarQube, Prometheus, Grafana.

**Databases / Cloud:** MongoDB, Firebase, MySQL.

**ML / Tools:** TensorFlow, Flan-T5, LoRA/PEFT, Hugging Face.

## Languages

English (Fluent) — French (Fluent) — Arabic (Native)

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