

ABDERRAHMEN OTHMAN

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EXPERIENCE

Software Engineer Intern

National Office of Land Ownership (ONPF)

February 2025 - September 2025

Tunis, Tunisia

- Develop web/mobile platform to automate the drafting and management of property deeds.
- Implemented intelligent document generation from dynamic templates with embedded business rules.
- Integrated instance segmentation to extract zones of interest (stamps, tables, signatures) from scanned legal documents.
- Improved OCR accuracy by up to +18% via advanced pre-processing and structured segmentation.
- Refine **Qwen2-VL-2B**, a multimodal vision-language model, for structured OCR on Arabic land documents.
- **Technologies:** Python, Django, Next.js, PostgreSQL, Zustand, YOLOv8, Qwen2-VL-2B, Docker, OCR, React

Software Engineer Intern

Segula Technologies Tunisie

August 2024 - September 2024

Sfax, Tunisia

- Enhanced admin platform by integrating new backend features (authentication, data export, API endpoints).
- Refactored legacy Django views and serializers for improved maintainability and RESTful practices.
- Optimized website performance, reducing page load times by 40% and boosting user satisfaction.
- **Technologies:** Django, Python, RESTful APIs, Code Refactoring, Performance Optimization

Part-time Software Engineer

JEENISO

2023-2024

ProGSM Android App

- Delivered a mobile solution and website for ProGSM, a retailer specializing in smartphones and accessories.
- Developed two React Native apps: a customer app for product browsing and a dashboard for inventory.
- Built backend logic and API integrations for real-time product listings and secure authentication.
- Contributed to a responsive e-commerce website, enhancing digital visibility and customer engagement.
- Participated in Agile cycles, including sprint planning and client reviews, to ensure timely delivery.
- **Technologies:** React Native, Node.js, Express.js, MongoDB, RESTful APIs, Agile, E-commerce, Git, JavaScript

PROJECTS

Predictive Maintenance Simulation Interface

2024

- Built a Flask-based API for predictive maintenance, analyzing hard drive data with an LSTM model.
- Developed a backend API for time series analysis and integrated Firebase for secure user management.
- **Technologies:** Flask, Python, LSTM, Firebase, PostgreSQL, RESTful APIs

EDUCATION

Computer Science Engineer, National Engineering School of Sousse, Sousse University

2022 - 2025

Diploma in Mathematics and Computer Science, Sousse University

2020 - 2022

SKILLS

Programming Languages: Python, Java, JavaScript, TypeScript

Frameworks & Technologies: Django, FastAPI, PostgreSQL, MySQL, Flask, React, NextJS, Docker, Github, Express JS, Node JS, OCR, Yolo, LLM