

# Chadlia El Amri

AI & SOFTWARE ENGINEER

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## PROFILE

Recent AI & Software Engineering graduate passionate about intelligent automation and LLM-based systems. Experienced in developing end-to-end AI workflows, scalable APIs, and data-driven tools from previous roles in Paris and Tunisia. Actively seeking a full-time position as an **AI Engineer** or **Software Developer** to contribute to innovative AI-powered products.

## EDUCATION

**Higher Institute of Applied Sciences and Technology of Sousse** Sousse, Tunisia  
*National Engineering Degree in Software Engineering (With high honors)* Sep. 2022 – Oct. 2025

**Higher Institute of Applied Sciences and Technology of Sousse** Sousse, Tunisia  
*Bachelor's Degree in Computer Systems Engineering (With honors)* Sep. 2019 – Jul. 2022

## EXPERIENCE

**Choose** Paris, France  
*Full Software Engineer Intern* Feb. 2025 – Aug. 2025

- Built internal AI automation tools that reduced manual processing errors by **70%** and sped up data generation.
- Replaced Google Sheets workflows with a **custom web interface and API** including server-side validations, improving reliability and scalability.
- Developed resilient **scraping pipelines** with rotating proxies and anti-bot handling to extract informations.
- Delivered reusable **internal packages** aligned with a Domain-Driven Design architecture to improve codebase modularity.
- Deployed microservices on **GCP Cloud Run** with **CI/CD pipelines**, integrating workflows for automated updates.

**LaTech** Sousse, Tunisia  
*R&D Intern* Jul. 2024 – Sept. 2024

- Researched and tested **Lavague**, an open-source framework for LLM-powered web agents.
- Benchmarked multiple **LLMs** on speed, cost, and output consistency, optimizing via **prompt engineering**.
- Built agent workflows using **LangChain** and **LlamaIndex** to handle multi-step automation tasks.
- Conducted cost/performance analysis to guide cloud vs. on-premise deployment choices.

## PROJECTS

**ScrapLLM — Python, Gemini, LangChain, Langfuse, Next.js, FastAPI** Mar. 2025

- Developed an **intelligent scraping platform** using LLMs to discover links, filter data, and extract structured product details.
- Implemented advanced **HTML cleaning** pipelines to ensure compatibility with LLM inputs.
- Integrated **Langfuse** for prompt and output monitoring, and added a benchmarking module to compare LLMs.
- Built an autonomous **extraction agent** with LangChain + ADK, deployed on MCP, and exposed via **FastAPI**.

**RAG Assistant — Python, OpenEmbedding, LangChain, FastAPI** Jan. 2025

- Implemented a **Retrieval-Augmented Generation** system using open-source embeddings and semantic search for QA tasks.
- Added automatic **out-of-context detection** for irrelevant user queries.
- Integrated a fallback **AI agent** to handle unanswered queries.
- Exposed inference capabilities via a **REST API** built with FastAPI.

**ShortVids — Flask, React, Remotion, Selenium, Whisper** Sept. 2024

- Built a system converting **RSS feeds** into short videos, with content summarized by LLMs and audio generated via Whisper.
- Automated article extraction and preprocessing using **Selenium** to ensure clean, structured inputs for video generation.

## SKILLS

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**Languages** : Python, TypeScript, JavaScript, SQL, Java, C, Bash

**AI & LLMs** : LangChain, LangGraph, Langfuse, Hugging Face, OpenAI, Gemini, Whisper, RAG, Prompt Engineering, Transfer Learning

**Web Development** : React, Next.js, FastAPI, Flask, Node.js, REST

**Databases** : PostgreSQL, MongoDB, SQL/NoSQL, GraphQL, Redis

**Cloud & DevOps** : GCP , Docker, GitHub Actions, CI/CD

**Scraping & Automation** : Puppeteer, Selenium, BeautifulSoup, Zyte, Firecrawl, ADK, MCP, n8n

## LANGUAGES

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**Arabic** : Native      **English** : C1      **French** : B2