

# Walid Abdela

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## EXPERIENCE

### École des Mines de Saint-Étienne

Research Engineering Intern

Apr 2025 - Jul 2025

Saint-Étienne, France

- Ideated and Implemented an algorithm for automating the synthesis of **JaCaMo**-based agents based on the available information on a Knowledge Graph, cutting manual setup by **100%** and enabling multiple agents to be generated instantly.
- Modeled and structured inter-agent communication protocols to be stored within a Knowledge Graph, boosting simulation experimentation throughput by **70%**.

### Freelance

AI Engineer

May 2024 - present

- Providing state-of-the-art AI solutions and consultancy.

### Borsa

Software Engineer

Dec 2022 - May 2024

Washington, U.S.A

- Developed and optimized **Node.js/Express** APIs to enhance scalability, resulting in a **65%** increase in system reliability.
- Migrated a codebase from **JavaScript** to **TypeScript**, integrating state management with **Redux Saga** to improve deployment speed by **30%** and reduce production bugs by **40%**.
- Collaborated on **CI/CD** pipelines to streamline deployments and improve testing processes.

## PROJECTS

### Cod3R

Aug 2025

- Developed an AI agent using **LangChain/LangGraph** capable of transforming a user's request into a complete application, thereby **reducing development time**.

### FoundrMatch

April 2025 - Aug 2025

- Built an AI-powered recommendation engine using **LangChain** and **Groq(Llama-3)** to match startup founders based on profiles, skills, and goals.
- Designed and implemented a **pipeline** for profile ingestion, vectorization, and similarity scoring, leveraging **RAG** for explainable recommendations.
- Achieved **sub-second response times and improved match relevance**, leading to higher engagement compared to traditional keyword-based systems.

## SKILLS

**Languages** | Python, Java, C/C++, SQL, TypeScript, JaCaMo

**Technologies** | Pytorch, TensorFlow, Jax, Hugging Face, Unsloth, FastAPI, LangChain/LangGraph, AWS, Git, Docker, Kubernetes

**Concepts** | Machine Learning, Transformers, Multi-Modality, Prompt Engineering, Retrieval-Augmented Generation, Agentic AI

## EDUCATION

Université de Lyon | École des Mines de Saint-Étienne | Université Jean Monnet

Master's of Science(M.Sc.) in Computer Science: Artificial Intelligence and Internet of Things

Sep 2024 - Jul 2026

14.23 / 20

**Courses:** Machine Learning, Data Mining, Multi-agent Systems, Statistics, Internet of Things

Addis Ababa University

Bachelor's of Science(B.Sc.) in Computer Science

Sep 2018 - Jul 2022

3.35 / 4

**Courses:** Artificial Intelligence, Data Structures and Algorithms, Distributed Systems, Calculus I, Linear Algebra