

Amir Abdallah

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EDUCATION

- **National School of Electronics and Telecommunications of Sfax** Sfax, Tunisia
Engineering in Data & Artificial Intelligence Sept. 2022 – Present
- **Sfax Preparatory Engineering Institute** Sfax, Tunisia
Pre-Engineering in Physics & Technology Sep. 2020 – June 2022

EXPERIENCE

- **Proxym** Sousse, Tunisia
AI Software Engineer Intern Feb. 2025 – Aug. 2025
 - **AI-Powered Requirements Processing:** Engineered an innovative application automating the transformation of software requirements into structured ClickUp tasks.
 - **Microservices Backend:** Designed and developed a robust, polyglot microservices backend with OAuth 2.0/OIDC authentication and MinIO object storage integration.
 - **Interactive Frontend Development:** Built a responsive Next.js application featuring a multi-step wizard interface with real-time validation and intuitive user workflows.
- **Neuralbey** Remote
Software Engineer Intern Jul. 2024 – Sep. 2024
 - **Microservices Architecture:** Architected and implemented applications using Spring Boot and Spring Cloud.
 - **Event-Driven System:** Designed architecture utilizing Apache Kafka for scalable message processing.
 - **Security Implementation:** Implemented robust security measures through KeyCloak IAM and OAuth2 protocols.
 - **Containerization:** Containerized applications and managed deployment using Docker and Kubernetes.
- **Telecom TN** Hybrid
ML Engineer Intern Jul. 2023 – Jul. 2023
 - **End-to-End ML Pipeline:** Architected and implemented pipeline with automated data ingestion from SAP Data Warehouse.
 - **Data Processing Workflows:** Designed scalable workflows for feature engineering and model training using scikit-learn.
 - **Full-Stack ML Application:** Developed and deployed ML model as web application using FastAPI backend and React frontend.

PROJECTS

- **Real-Time Chat Application**
GitHub: github.com/AmirUpSkill/Real-Time-Chat-App
 - **WebSocket Implementation:** Developed full-stack real-time messaging system using Spring WebSocket API & Spring Boot 3.X with sub-200ms latency
 - **Modern Frontend Architecture:** Built responsive client application using React 19, TypeScript, & Vite with Tailwind CSS and shadcn/ui components
 - **Database & Real-time Features:** Integrated Neon Serverless Postgres for data persistence with instant room discovery and live presence awareness
- **DeepFlow - AI-Powered Learning Platform**
GitHub: github.com/AmirUpSkill/DeepFlow
 - **AI-Native Architecture:** Built intelligent YouTube video processing system using Google Gemini API with FastAPI backend for transcript analysis and content generation
 - **Asynchronous Task Processing:** Implemented scalable background job processing using ARQ & Redis queue system for handling long-running AI operations with rate limiting
 - **Full-Stack Learning Platform:** Developed React 19 + TypeScript frontend with Tailwind CSS, integrated with Neon PostgreSQL database for generating summaries, MCQs, and flashcards

PROGRAMMING SKILLS

- **Languages:** Java, Python, Ts , SQL, Git
- **Technologies:** Spring Boot, Fast API, React