

# Amir Abdallah

Mobile: +216-94-372-302 — Email: amirabdallahpfe@gmail.com — LinkedIn — GitHub — Medium

## EDUCATION

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- **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

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- **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

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- **Full-Stack AI Chatbot**  
*GitHub:* [\[github.com/AmirUpSkill/ollama-SpringAI\]](https://github.com/AmirUpSkill/ollama-SpringAI)(<https://github.com/AmirUpSkill/ollama-SpringAI>)
  - **Local LLM Integration:** Engineered a full-stack chatbot using Spring AI to orchestrate a locally-run Gemma 3 model via Ollama, ensuring data privacy and offline capability
  - **Reactive Streaming API:** Implemented a high-performance, token-by-token streaming API using Spring WebFlux and Server-Sent Events (SSE) for a real-time conversational UI
  - **Full-Stack Architecture:** Developed a responsive client with React 19 & TypeScript, integrated with Neon Serverless Postgres for persistent, scalable conversation history
- **Real-Time Chat Application**  
*GitHub:* [\[github.com/AmirUpSkill/Real-Time-Chat-App\]](http://github.com/AmirUpSkill/Real-Time-Chat-App)(<http://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

## PROGRAMMING SKILLS

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