

Ibrahim Krayem

GENERATIVE AI DEVELOPER | PhD IN COMPUTER SCIENCE

ibrahim.krayem@outlook.com +33 7 67 07 09 25 Le Plessis-Robinson, France

linkedin.com/in/ibrahim-krayem

PROFILE

I am a generative AI developer at TALAN, with a PhD in Computer Science from the University of Rennes and an engineering degree from ENSTA Bretagne. I build language-model applications that help businesses make sense of complex information.

EXPERIENCE

Generative AI Developer Oct 2024 - Present

TALAN | Paris, France

- Contributing to Bpifrance's PICXEL automated document analysis project.
- Modernising Bpifrance's financial chatbot ecosystem and developing the SVI agent for investment and holdings monitoring, including automated SWOT analysis from financial data and user documents.
- Implementing document extraction, PowerPoint export and real-time SSE streaming; adapting the Angular frontend and documenting the transition between Java, Python and MCP architectures.
- Developing TALAN's internal RFP Analyser to assist managers in preparing and writing responses.

Research & Development Engineer Oct 2023 - May 2024

IRISA | TARAN | Lannion, France

- Designed a NoC performance analysis algorithm using trace windowing and a Poisson distribution.
- Implemented fast trace processing to improve network-on-chip performance analysis.

Doctoral Researcher Oct 2020 - Sep 2023

IRISA | TARAN | Lannion, France

- Developed a queueing-theory model in Python, with evaluation up to 500x faster than conventional simulations in the reported research comparison.

TEACHING

Lecturer - Networks & Virtualisation 2026

UPEC | EPISEN | Paris, France

- Delivering lectures, tutorials and practical sessions in networks and virtualisation.

Lecturer - Microcontrollers 2022 - 2024

ENSSAT | University of Rennes | Lannion, France

- Delivered tutorials and practical sessions in microcontrollers and supervised an interfacing project.

SELECTED ACHIEVEMENTS

Turning financial data into decisions.

Bpifrance | SVI agent | via TALAN

Modernising a financial chatbot ecosystem and integrating LLM-powered conversational agents for investment monitoring. An end-to-end conversational workflow that enriches LLM analysis with financial and documentary context, streams its execution in real time and delivers reusable SWOT presentations.

LLM agents | Python | Angular | SSE | MCP | Financial analysis

Making documents more useful.

Bpifrance | PICXEL | via TALAN

Contributing to an automated document analysis solution powered by large language models. Applied generative AI experience within a business document analysis project.

Generative AI | LLMs | Document analysis

Helping teams shape their next response.

TALAN | RFP Analyser

Developing an internal AI tool to analyse requests for proposals and assist managers with their responses. An internal tool designed to assist managers throughout the response preparation process.

LLMs | RFP analysis | Writing assistance

SKILLS

AI & LANGUAGE MODELS

LLMs & RAG
LangChain
Langfuse
OpenAI API
TensorFlow
OpenCV

SOFTWARE & DATA

Python
Java | C | C++
SQL | PostgreSQL | MySQL
MongoDB | Milvus
JavaScript | HTML | CSS
C# | ASP.NET | PHP

CLOUD & DELIVERY

Azure | AWS
CI/CD | Jenkins
Datadog
Git | GitHub | GitLab
Agile | Scrum

RESEARCH & SYSTEMS

Performance modelling
Queueing theory
Networks on chip
SystemC | Noxim
Pandas | SciPy
Technical writing & teaching

EDUCATION

Feb 2024

PhD in Computer Science
University of Rennes

Sep 2020

Engineering degree in Computer Science & Telecommunications
ENSTA Bretagne

Aug 2017

Bachelor's degree in Computer Networks & Telecommunications Engineering
Lebanese University | Faculty of Technology

CERTIFICATIONS

Microsoft Azure AI-900
Professional Scrum Master I
GitHub Copilot Certification

LANGUAGES

French Fluent
English Professional
Arabic Native

ENGAGEMENTS

IEEE member
Order of Engineers - Lebanon
Volunteer with the French Red Cross