

Yanis SINDT-BARET

BACKEND ENGINEER

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Software engineer specialized in backend development, API design, and containerization, I build end-to-end applications combining robustness and scalability. After a year dedicated to learning Japanese and developing personal projects, I am now ready to bring this expertise to new technical challenges within an ambitious team.

Work Experience

Software Engineering for pharmaceutical research

09/2023 - 09/2024

SANOFI

Marcy l'étoile (France)

- **Refactored, improved, and deployed** vaccine research software, enabling teams to **expand** their research capabilities.
- Designed and managed a custom **SQL database**, optimizing **query execution time** by 90% for user-specific requests.
- Implemented automated **unit testing** with **pytest**, incorporating **continuous integration** practices.
- Developed **ETL pipelines** in **Python**, orchestrated with **Snakemake** to support requests from biologists.

Machine learning internship

03/2023 - 09/2023

MEDIA INFORMATICS LABORATORY

Kobe (Japan)

- Development of an **AI agent** based on **LLMs** and a **RAG** architecture to automate scientific literature research.
- Design of **web scraping** pipelines to build a tailored **dataset** used to improve model performance.

Computational biology internship

06/2022 - 07/2022

LABORATOIRE D'INFORMATIQUE EN IMAGE ET SYSTÈMES D'INFORMATION (LIRIS), BEAGLE TEAM

Villeurbanne (France)

- Integrated an evolutionary **mathematical model** into a **new module** of existing **C++ software**.

Data analyzing internship

03/2021 - 04/2021

MEDITERRANEAN INSTITUTE OF OCEANOGRAPHY (M.I.O)

La Garde (France)

- Analysis and processing of **experimental data** with **R** and **Python**, validating results against published data ([publication](#)).

Skills

Development	Python, C#, Bash, Rust, C++, C, TypeScript, R
Data & IA	ETL Pipelines, LLM, Nextflow, Prompt engineering, scikit-learn , pytorch
Cloud & DevOps	Docker, Linux, Git, Conda, AWS, Data Visualization, Pytest , API Development, CI/CD
Data Engineering	ETL Pipelines, Data Modeling, Pipeline Orchestration (Nextflow, Snakemake)
Languages	English (CEFR C1 - Cambridge Linguaskill), French (Native), Japanese (Basic), Spanish (Basic)

Project

IDE for AI-assisted scientific research

2026

PERSONAL PROJECT

Toulon (France)

- Built a **local-first** desktop application in **Tauri (Rust/React/TypeScript)**: **Zotero** library, LaTeX/Python editor, AI assistant.
- Built a local **RAG pipeline (Python)** over the user's **Zotero library**: **accurate** and **sourced** results and values, ready to cite when writing.

Iori — Japanese Learning Extension

2026

PERSONAL PROJECT

France

- Built and shipped a **browser extension** in **TypeScript** interrupting doomscrolling with Japanese flashcards driven by an attention state machine.

Combat Simulation Platform

2025-2026

PERSONAL PROJECT

France

- Built and shipped a [web app](#) and live-stream overlay in **React/TypeScript**, powered by a **parametric computation pipeline**.

Education

Master of Engineering in Computer Science and Data - Bioinformatics specialization

2021-2024

NATIONAL INSTITUTE OF APPLIED SCIENCES OF LYON

Villeurbanne (France),

Master of System Informatics (6-month university exchange program)

2023

KOBE UNIVERSITY

Kobe (Japan)

Hobbies and Interests

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|------------------------|---|
| Association | Vice-president of a board game association. Organized an international event in Japan . |
| Sports/Sciences | Volleyball , Archery, Video games , Hiking, Naturalist observation , <i>cats</i> . |