

# JOEY DAVID

Student in AI, Developer

 [github.com/joey-david](https://github.com/joey-david)

 [joeydavid99@gmail.com](mailto:joeydavid99@gmail.com)

 [linkedin.com/in/joey-david-](https://linkedin.com/in/joey-david-)

## Background

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As an international student with roots in France and the US, I combine rigorous academic training with practical experience building intelligent systems. I'm strongly committed to pushing the boundaries of what AI can achieve.

## Education

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**M.Sc. in Artificial Intelligence**

**Sep. 2024 – June 2026**

*Université Claude Bernard*

*Lyon, France*

**CPGE / B.Sc. in Computer Science**

**Sep. 2020 – April 2024**

*Université Claude Bernard / Oregon State University*

*With Honors – Lyon, France / Corvallis, USA*

**American OIB Scientific Baccalaureate**

**Sep. 2017 – June 2020**

*Cité Scolaire Internationale de Lyon*

*With Honors – Lyon, France*

## Professional Experience

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**Student Researcher** | *INSA Lyon*

**February 2025 - June 2025**

- Developing a semi-supervised learning model for etiological diagnosis of uveitis, a sight-threatening eye inflammation.

**Fullstack Developer - Intern** | *Sopra Steria*

**April 2024 - July 2024**

- Complete design and implementation of a **CV analysis model** based on **natural language processing**.
- Development in **Java**, **Spring**, and **React** of various features, 100% of which were implemented in the *Operation* application, used by *Storengy* to manage France's gas network.

**Information Systems Technician** | *Hôpitaux Nord Ouest*

**June 2023 - August 2023**

- Actively maintained and improved IT systems for 10+ hospitals and care centers, resolving over **600 ticketed issues**.

## Relevant Projects

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[chatbrain.chat](#) | **Pytorch, YOLO\_v11**

**November 2024 – February 2025**

- Developed an application allowing for advanced conversation analysis from multiple sources (e.g., direct text input, logs, screenshots, voice messages). Combined local analytics with an LLM pipeline for detailed insights.
- Implemented a custom fine-tuned YOLO detector to label chat boxes in screenshots for OCR transcription, leading to an inference time of **< 200ms/image** with **≥ 95% accuracy**.

[Agentica](#) | **LLMs, Agentic architecture**

**January 2025 – Ongoing**

- Collection of modular LLM-powered agents for automation, learning, and research. Features include spaced repetition flashcards, contextual memory, and dynamic task execution.

[Neural Network, From Scratch](#) | **Python, Numpy**

**July 2024 – August 2024**

- Implemented a pure Numpy neural network achieving multi-class classification across **51 character classes**.
- Engineered efficient mini-batch processing with automated hyperparameter tuning suite.

## Skills

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**Concepts:** Machine Learning, Semi-supervised Learning, Natural Language Processing, Neural Networks, Finetuning, Computer Vision, Algorithms, Networking, Backend, Frontend, Databases, Deployment, System Design, Statistics.

**Frameworks/Languages:** Python, C++, JavaScript, SQL, MongoDB, PyTorch, Tensorflow, Pandas, HuggingFace, CUDA, Java, Spring.

**Tools/Platforms:** UNIX/Linux, Git, CI/CD, TCP/IP, REST, Docker, Kubernetes, AWS, Compilers, VMs, GPUs.

## Soft Skills

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**Communication:** Articulate communication, Active listening, English (Native), French (Native), Japanese (Intermediate).

**Collaboration:** Cross-functional teamwork, relationship building, proactive leadership.

**Problem-Solving:** Analytical thinking, critical reasoning, resilience, ambiguity navigation, agile mindset.

## Interests

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**Hobbies:** Long-distance Hiking, Skiing, Calisthenics, Philosophy, Languages, Chess.

**Volunteering :**

- Contributed to the deployment of an HIV screening campaign for vulnerable populations in Beaujolais (France). (2021)
- Led an initiative to provide food and water to the homeless of Corvallis (Oregon) during winter. (2023)