

Lucas Duport

📍 Paris, France
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Seeking a **6-month** internship starting **February/March 2026** in **MLOps, Machine Learning, or Computer Vision**. Passionate about solving complex technical challenges and eager to contribute to innovative, impactful projects **worldwide**.

🔧 Projects

WhatsUpDoc 🔄

👥 6

Python, FastAPI, React

- **Finalist in Google Healthcare Hackathon** against 180 competitors.
- Developed a conversational AI avatar assistant to guide patients through the pre-diagnosis prior to medical appointments.
- Fine-tuned MedGemma-4B on a cardiology dataset, achieving a **2x improvement** in diagnostic task performance.

Ship Classification 🔄

👥 2

Python, TensorFlow/Keras

- Built a CNN to classify 13 ship types from 32×32 images under a **30-layer** limit.
- Boosted accuracy with **progressive training** and **balanced augmentation** across phases while preventing overfitting through early stopping and LR scheduling.
- Designed an **efficient and reproducible** input pipeline with batching, prefetching.

Distributed IoT Ring Health Analytics System 🔄

👥 4

Scala, Kafka, Spark, MinIO, Docker

- Developed a distributed pipeline simulating a smart ring to **stream sensor data** and manage messaging with Kafka.
- Analyzed ingested signals stored in MinIO using Apache Spark providing **health insights**.
- Built an alert microservice to analyze data continuously and **trigger notifications** for alerts.

📁 Work experience

Teaching Assistant

Ref: Valentin SEUX, Associate Director – valentin.seux@epita.fr

Paris, France

EPITA

2023 – Present

- Part of a team of 70 students **supporting 800+ third-year students** in coding activities alongside my studies.
- Designed a practical exercise for students with robust test suite deployed as an automated grading system.
- Crash-tested multiple projects and their test suites, providing **constructive feedback**.
- Assisted students with **debugging and answered technical questions** across various programming languages.
- Attended training regarding pedagogic approach, posture, motivation, voice, and body language.

AI/ML Intern

Ref: Philippe VIALLETTELLE, Data Science - philippe.vialletelle@st.com 📄 [Letter](#)

Grenoble, France

STMicroelectronics

09/2024 – 01/2025

- Created a full-stack platform using FastAPI for data validation and annotation, collecting **hundreds of reports**.
- Conceived a **data augmentation** pipeline using RAG for technical text summarization.
- Developed a **root cause suggestion system** based on reported symptoms in collaboration with end-users; the proof-of-concept was validated with stakeholders and is currently **being piloted in 4 factories**.

🎓 Education

EPITA - Master's Degree in Computer Engineering

Paris, France

Major: Artificial Intelligence & Computer Vision | GPA: 3.7 | Member of student association

2021 – 2026

San Francisco State University - Computer Science

San Francisco, USA

Exchange Semester | GPA: 3.9 | EPITA Student Ambassador

2023

✂ Skills & Interests

Hackathons: Google Healthcare - **Finalist**, Mistral AI MCP - **People's Choice Winner**.

Technical Skills: Python (PyTorch, TensorFlow), C, C++, CUDA, C#, Java, SQL, JavaScript, Shell, Scala.

Tools: Git, Docker, Nix, Linux.

Languages: French (native), English (C1, **970/990 TOEIC**), Italian (B2).

Interests: homelab, skiing, watchmaking, poker, travel.