

LOÏC HERLIN

Software Engineer · C# / .NET · IoT · AI

Hégenheim 68220, France | herlin.loic.max@gmail.com

www.herlinloic.com | linkedin.com/in/loicherlin | github.com/LoHernnn

SUMMARY

Software Engineer at Sopra Steria, graduated in 2025 with an engineering degree from Télécom Physique Strasbourg and a Master's degree in computer science (SIRIS). Versatile and innovation-driven profile with expertise in software development, IoT, system integration and AI. Open to software and cloud engineering roles combining .NET, IoT and AI.

WORK EXPERIENCE

Software Engineer, Sopra Steria · Strasbourg, France

Apr 2026 – Present

- Analysis and development of banking applications and software solutions, primarily using C# and .NET.
- Developed a banking product simulator for the Plan Épargne Logement (PEL), integrated into both the bank's website and mobile application.
- Performed local testing and debugging to ensure software quality; contributed to continuous integration and automated delivery.

Software Engineer, Endress+Hauser · Reinach, Switzerland

Mar 2025 – Sep 2025

- Analyzed multi-device performance data with Python to identify behavioural anomalies and monitor the protocol stack's evolution.
- Developed a smartphone simulation tool within the proprietary Bluetooth LE stack, simulating about 10 smartphones (1 iOS, 9 Android).
- Designed and deployed a GitLab CI/CD testing system for the Bluetooth LE stack, with dedicated runners and a pipeline view giving an immediate overview of test results.
- Implemented automated tests across 3 products, including integration tests between 2 interconnected products, improving efficiency and reliability.

Research and Development Intern, New York University · New York, US

Jun 2024 – Sep 2024

- Developed a networked gas detection system using a distributed field of autonomous sensors; built 5 sensors, used in a mobile and a fixed setup.
- Infrastructure: deployed an MQTT network for real-time data transmission and edge-to-cloud connectivity.
- Data merging: implemented algorithms to localize sources by aggregating flows from heterogeneous network nodes.

Research Intern, ICube · Illkirch-Graffenstaden, France

Jun 2023 – Jul 2023

- Designed an experimental VR protocol for real-time physiological data collection (cardiac coherence).

Developer Intern, CIAGEC · Eckbolsheim, France

Apr 2022 – Jun 2022

- Developed an ETL automation tool for migrating data flows to SharePoint, including integrity validation and restructuring of document databases.

EDUCATION

Engineering degree in computer science and networking · Télécom Physique Strasbourg (IMT partner)

2022 – 2025

Master's degree in computer science (Master SIRIS) · University of Strasbourg

2023 – 2025

DUT in computer science · IUT Robert Schuman, Illkirch-Graffenstaden

2020 – 2022

Coursework: networking & infrastructure, cloud & distributed systems, IoT, embedded systems & edge AI, operating systems (xv6), deep learning & data engineering, optimization, cybersecurity, programmable & wireless networks.

CERTIFICATIONS

Microsoft Azure AI Cloud Developer Associate (AI-200) · in progress, exam planned November 2026 ·

Azure DevOps Engineer (AZ-400) · next

LEADING PROJECTS

Scrapy — Cryptocurrency trading bot & analytics dashboard · [GitHub](#)

2025 – 2026

- Full-stack application combining technical indicators with Twitter sentiment analysis for real-time market insight: collection with Python and Selenium, sentiment analysis with Transformers (Hugging Face) on PyTorch, PostgreSQL storage, Next.js dashboard.

Metacam — Camera network for object detection · Final year project · [GitHub](#)

2024 – 2025

- Detect and locate eyeglasses in various environments: deployed an architecture for image processing and real-time inference; pre-trained YOLOv8, then fine-tuned it with layer freezing to adapt to new images while retaining learned features.
- Prepared a dataset of about 2,000 images (cleaning, annotation, data augmentation), stored in a private Hugging Face repository.

SKILLS

Languages C#, Python (Pandas, NumPy), C, C++, Java, SQL, JavaScript

Back-end & web .NET, Next.js, React

AI & vision YOLOv8, PyTorch, TensorFlow, Transformers (Hugging Face), OpenCV, Matlab

DevOps & tools Git / GitLab CI/CD, Docker, Selenium (test automation), Azure, Linux, Unity

IoT & embedded Bluetooth LE, MQTT, ESP32 / Arduino, Zephyr RTOS, Nordic nRF52, ROS / ROS2

Spoken languages French (native), English (professional), German (basic)