Arthur Louette

Louvain-La-Neuve • Villers-La-Ville arthurlouette12@gmail.com 0475 64 19 53 Portfolio
Arthur Louette Arthvrr

Technical Skills

Programming: Python, C++, Java, Swift, C, Bash, SQL, JavaScript
AI & Data: Machine Learning, Deep Learning, LLMs, RAG, LangChain, ChromaDB
Infrastructure & Tools: Git, Docker, LLVM, Make, Node.js, Linux, macOS Development
Languages: English (Professional Working), Dutch (Intermediate), French (Native)
Interests: FinTech, Financial Markets, Scouting, Sports

Education

Università degli Studi di Padova *Sept 2026 - Feb 2027*
Erasmus Exchange Program — Artificial Intelligence

- Erasmus exchange semester fully taught in English, focusing on Advanced Artificial Intelligence.
- **Key coursework:** Explainable AI (xAI), Computer Vision, Speech Technologies,..

Louvain School of Engineering (UCLouvain) *Sept 2021 - June 2027*
Master & Bachelor in Computer Science — Option: Artificial Intelligence

- General training in computer science (Algorithms, Systems, Networks, Paradigms, Mathematics, Projects...) followed by a specialization in Artificial Intelligence: Machine Learning, Pattern Mining and Optimization.

Experience

Master Thesis Intern in AI & Risk *Brussels*
BNP Paribas Fortis *Feb 2027 - June 2027*

- *Upcoming:* Research and prototype AI model calibration and risk analysis approaches within a highly regulated banking environment.
- Daily collaboration in an Agile framework with Data Scientists and ML Engineers to develop transparent, auditable AI workflows that meet real enterprise constraints.

Student Software Engineer *Louvain-La-Neuve*
UCLouvain *July - Aug 2026*

- Ported the legacy Mozart 2 programming system from Intel (x86_64) to Apple Silicon (ARM64) architecture to ensure native compatibility on modern macOS devices.
- Diagnosed and resolved low-level C++ dependency conflicts and configured advanced compilation pipelines using Make and LLVM.

Student Teaching Assistant *Louvain-La-Neuve*
UCLouvain *Feb 2026 - June 2027*

- Assisted students in building HTML/CSS websites with Flask, later connected to a SQL database. Organized weekly meetings to monitor project progress and support students. (LINFO1002)
- Led practical sessions by re-explaining theoretical concepts and answering students' questions regarding the exercises (LINFO1104).

Projects

MacOS App - BlueChip *App website*

- Development of a completely free, native macOS portfolio management application using SwiftUI and SwiftData. Integrates BYOK (Bring Your Own Key) AI APIs to provide advanced, privacy-first financial insights.
- **Tools used**: XCode, Swift, SwiftUI, SwiftData, AI API integration.

GitHub Repository - MyRAG *Repository*

- Development of a local AI assistant based on the **RAG** (Retrieval-Augmented Generation) architecture for indexing and querying personal documents.
- **Tools used**: Python (LangChain, Ollama, Llama 3, ChromaDB).