



ARTHUR ARNOUX

SOFTWARE ENGINEER

LinkedIn

<https://www.linkedin.com/in/arthur-arnoux/>

GitHub

<https://github.com/Arnoux>

DETAILS

AGE

25 years old

LOCATION

Paris

CONTACTS

arthur.arnoux@gmx.fr

SKILLS

Java, C, Python, Go

Valgrind, GDB, JVM

CI, Git, Kubernetes

Problem analysis and solving

System & infrastructure designs

ML implementation & frameworks

LANGUAGES

French (native)

English (fluent)

German (intermediate)

Arabic (beginner)

HOBBIES

Running & Badminton

Reading & SF

AI & Privacy projects

PROFILE

Software Engineer with a high performance programming background, I focused during my early career on low level programming, cluster-management, middleware transport layer and load-balancing algorithms, while keeping place for personal projects on AI, privacy, or other papers.

WORK EXPERIENCE

Software Engineer, Murex (Paris, FR)

Oct. 2022 – Now

- Implemented load-balancer level access control with authorization and authentication checks of rest APIs, using low-level algorithms such as trie-based URL parsing and sub-requests for a more efficient microservice architecture (C, HTTPd, rest APIs, ...).
- Analysed and re-architected load-balancer, services discovery, and middleware transport layer, for higher availability (Java).
- Introduced different concurrency solutions for high availability, via event-driven architecture, event sourcing, futures and actor model.
- Developed chaos testing library for dummy services to stress the cluster of services (Python, both OOP and scripting).

Intern Software Engineer, Murex (Paris, FR)

Mar. 2022 – Aug. 2022

- Optimized the availability and scalability of a real-time market data service: up to 70% faster recovery.
- Researched algorithms for health checks, multithreading and backup services solutions.
- Analysed pre/post-processing algorithms to find and eliminate SPOFs during the data streaming.

Intern full-stack developer, Eiffage – Dynae (Mulhouse, FR)

Jul. 2021 – Aug. 2021

- Developed a web application, designed the database schemas and backend for equipment management. (PostgreSQL, Java)

EDUCATION

EPFL – Study semester with Erasmus+ (Lausanne, CH)

Sep. 2021 – Feb. 2022

Machine Learning, Data security and privacy, NLP, decentralized systems, concurrent algorithms, networking.

ENSISA – Engineering Degree in Computer Science (Mulhouse, FR)

2017 – 2022

Software engineering & broad computer science (Rank: 1-2 / 40)