Aurélien Baraquin

Software engineer

Final-year internship, 6 months, March to August 2027

github.com/AurelienBaraquin

Final-year computer science student, I have been coding since I was a kid, starting with modding video games long before Epitech. What I like most is when a complicated problem ends up solved by something simple. Outside of code, I have been doing calisthenics for six years, which taught me consistency, and I am learning Chinese because I think it will matter as much as English in tech.

Experience

C/C++ Developer Intern · Actia Energy

Apr – Jul 2025 · 4 months

International industrial group, electronics for the energy sector — C/C++, Qt5, SQL, Linux

- Took over an old binary file of network variables, where every addition meant shifting tables by hand and every error meant reading the raw binary.
- I added versioning, a binary to JSON conversion and back, and a tool to update customers. Adding an entry and updating a customer took 2 days by hand, and now takes **10 minutes**.
- Qt5 application to manage these databases. WSL development environment matching production.

Full-stack Developer Intern · SportyDeal

Jul – Dec 2023 · 6 months

Startup, second-hand sports equipment marketplace — React, Vue.js, Laravel

- Built the platform's responsive front-end and reworked the Laravel back-end.
- Scraped a partner bike shop that wanted more visibility, to publish its listings on SportyDeal.

Projects

Kotonoto kotonoto.com

Next.js, PostgreSQL, Stripe

SaaS for learners of Japanese, Chinese and Korean, with 80 users, 12 of them paying. It started as a Chinese notebook app I wrote for myself.

PairToPairSync

Go, libp2p, Android

Serverless peer-to-peer folder sync, end-to-end encrypted, with a mobile relay for offline devices. CI on Linux, Windows and Android.

CLPF

C, Concurrency

Actor runtime inspired by Erlang, with work stealing between cores and 5.7M messages/s on 6 cores. I fixed a printf segfault on a movaps there: the stack was misaligned at task entry (found with GDB).

Self-hosted platform

Docker, Traefik, CI/CD

VPS running about ten services, redeployed on every push. Routing with Traefik, each service declares its route through Docker labels.

Raycaster

Rust, WebAssembly

Sector-based 2.5D engine in Rust, compiled to WebAssembly, with a game you can play from my GitHub profile.



Contact

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Aix-Marseille, France

Education

Epitech
Master's-level programme (Grande École)
2022 – 2027
RNCP level 7 · 5th year in progress

Dublin City University
Exchange year, Ireland
2025 – 2026

Aix-Marseille University
Chinese studies, Faculty of Arts and Languages
in progress
Special study regime, alongside Epitech

Skills

Programming
C, C++, Rust, Go, TypeScript, Python

Tools
React, Next.js, PostgreSQL, Docker, Git, Linux

Areas
Concurrent programming, Networking & encryption, Software architecture, CI/CD

Languages

French	native
English	TOEIC 800
Chinese	beginner, est. HSK 2

Interests

Calisthenics for 6 years
Volunteer team lead at VivaTech 2024
Chinese and Japanese
Reverse engineering of video games