Maxime Entz

3rd-year student at Epitech (Master's programme) – Seeking a Software Developer Internship

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Professional Experience

Teaching Assistant Feb. 2026 – Present
Epitech *Mulhouse, France*

- Mentoring 80 first-year students on their projects in C, C++ and Rust.
- Grading projects and oral defences, providing constructive feedback.
- Explaining technical concepts in accessible terms ([e.g. pointers, algorithms, Git]).

Freelance Software Developer June 2026 – Present
Self-employed *Mulhouse, France*

- Designed and delivered an **automation tool for a chartered accounting firm** (Cabinet Kursner): it collects receipts and invoices, prepares bookkeeping entries, reconciles bank statements and sends reminders to clients.
- Integrated a **locally run AI** that generates documents and an Excel export for the accountant, so client data never leaves the firm.
- Full ownership of the client relationship: requirements, quotes, delivery and support.

Software Engineering Intern Jul. 2025 – Jan. 2026
EL2i Informatique *Mulhouse, France*

- Built an **online quoting and invoicing module** (*Node.js, Fastify, React*) connected to the company's in-house **Delphi ERP**: quotes and invoices are created in a few clicks from the ERP and synced with the web application. Now running in production.
- Implemented **Factur-X** electronic invoices (PDF/A-3 with embedded XML, EN 16931) to comply with the French e-invoicing mandate.
- In charge of production deployment and DevOps integration (Docker, CI/CD).
- Regular communication with clients and organisation of follow-up meetings.

Projects

R-Type – Multiplayer shoot'em up 2026
C++20, Asio, UDP, SQLite, CMake *Epitech – team of 4*

- Built the **whole game server** and designed the **binary network protocol** over UDP (about 25 packet types, big-endian encoding, every field validated, reliable delivery with ACKs for critical packets).
- Authoritative multithreaded server: network, lobby, authentication and one thread per party (60 ticks/s, snapshots at 30 Hz), up to 16 parties of 4 players and 256 clients.
- Accounts stored in SQLite with Argon2id hashing. Hardened against floods, brute force and user enumeration with rate limiting, per-IP login limits and constant-time checks. Unit-tested and cross-platform (Linux / Windows CI).

Zappy – Networked AI game
C, C++, sockets *Epitech*

- Multi-client C server built on sockets, with its own communication protocol.
- C++ graphical client and an autonomous AI that plays the game.

Raytracer
C++, 3D math, multithreading *Epitech*

- Multithreaded ray tracer with reflections, soft shadows, materials and a configurable camera.

Gab The Mole – Game Boy game
C, GBDK-2020 *Personal project*

- Complete Game Boy game: tile-based island lobby, three mini-games (Memory, Tetris, Flappy Bird), dialogues and battery-backed saves.

Involvement

Organiser – RhineTech CTF 2026
Capture The Flag cybersecurity competition *Mulhouse*

- Designed and authored the **SIGINT** and **forensics** challenge categories (radio signal analysis, packet captures, memory and disk image investigation).
- Tested the challenges and wrote the official write-ups, then supported participants on these categories during the event.

League Football Referee Since 2018
League of Grand Est *Haut-Rhin, France*

Education

Epitech – Master's Programme (Programme Grande École) 2024 – 2029
Information Technology Expert – Master's-level degree (5 years) *Mulhouse, France*

French Baccalaureate (High School Diploma) 2021 – 2024
Majors: Mathematics and Computer Science *Zillisheim, France*

Technical Skills

Languages	C, C++, Rust, Python, Java, JavaScript/TypeScript, Haskell, Pascal/Delphi, Assembly
Web / Frameworks	React, Node.js, Fastify, Prisma
DevOps / Tools	Git, GitHub, Docker, GitHub Actions, GitLab CI
Systems / Networks	Linux, macOS, Bash, Proxmox, TCP/IP, UDP

Languages and Interests

Languages	French (native), English (B2 - TOEIC 750), German (A2)
Interests	Homelab and self-hosting (Proxmox), hiking and trail running

References

- **Pierre Schnoebelen** – CEO, EL2i informatique, Mulhouse
  Internship supervisor (Jul. 2025 – Jan. 2026)
  +33 3 89 57 90 16 contact@el2i.fr
- **Fabien Vogelweith** – Regional Director, Epitech Mulhouse
  Teaching assistant supervisor (since Feb. 2026)
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