

Mattéo BIANCHI, Systems & Network Engineer

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Employment History

- 2025 – Present
- **Software Engineer (Part-time)**, Alguillage KMØ, Mulhouse.
Promoted from Intern in 2026. Leading AI integration projects (LLM, RAG) and managing critical KMØ infrastructure (L2/L3, Proxmox, Ansible). Responsible for core services maintenance and scalability.
 - **Network Engineer (Freelance)**, Epicube Minecraft Server.
Expert management of BGP routing and DDoS mitigation for high-traffic infrastructure. Focus on network latency optimization and peering session tuning.
- 2022 – 2023
- **Software Engineer**, PAUC Private Anti-Cheat.
Developed low-level kernel detection (C/C++, KMDF) targeting mapped and injected drivers. Implemented advanced memory scanning and syscall hooking protections.
- 2019 – 2020
- **Student Intern**, Web Development at Pixies, Besançon.
Built web interfaces using PHP and React. Designed and deployed automated client newsletter systems.

Education

- 2024 – Present
- **Epitech, Mulhouse** Master's degree in Computer Science, 2nd Year (Expected 2029).
- 2021 – 2024
- **Lycée Jules Haag, Besançon** High School Diploma with Distinction.

Skills

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|------------------|---|
| Network | ■ BGP, OSPF, IS-IS, MPLS, VLANs, VPNs, NAT, TCP/IP, IPv4/IPv6, QoS, DNS, DHCP, load balancing, firewalling. |
| Radio | ■ Ham radio operator; TETRA, TETRAPOL, DMR, GSM, SATCOM, Ku-Band, GnuRadio. |
| Operating System | ■ Strong knowledge of Windows (kernel internals), OpenBSD and Linux environments. |
| Coding | ■ C, C++, Assembly RISC-V ISA RV64/x86/x64, Rust, Java, Go, KMDF driver ... |
| Reversing | ■ IDA, Ghidra, BinaryNinja, Radare2, x64dbg. |
| DevOps Tooling | ■ Maven, Gradle, Nexus, Jenkins, GitHub Actions, GitLab CI/CD, Docker, Kubernetes, Ansible. |
| Databases | ■ MySQL, PostgreSQL, MongoDB, SQLite, Cassandra, ScyllaDB. |
| Web Dev | ■ React, NextJS, Actix Web (Rust), TypeScript. |
| Languages | ■ French (Native), English (B2 - Upper Intermediate). |

Miscellaneous Experience

Competitions

- 2026
- **Rhinotech Mulhouse CTF**. Challenge maker for the SIGINT category.
- 2025
- **Basel Hack**. Competed in a multi-day hackathon in Basel, working on software development and networking challenges.
- 2024
- **Rhinotech Mulhouse CTF**. Participated in cybersecurity challenges, including cryptography, reverse engineering, and exploitation.

Personal Projects

- 2026
- **DEITYBOUNCE**. Research and development on the DEITYBOUNCE ANT project of the NSA which impact BIOS and SMM on Dell PowerEdge 1950/2950, etc.
- 2025
- **TekitUp**. Founder of the student network infrastructure at Epitech Mulhouse, operating a registered ASN (**AS208674**) with allocated IP address space.
 - **RV32I Disassembler**. Developed a disassembler for RV32I ELF binaries, supporting static analysis, pattern matching, and symbolic execution.