Adeyl RYZYNSKI

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EDUCATION

University of Lille — Lille, France
B.S. in Computer Science (In progress) — 2021 – 2025

- **Relevant Coursework:** Systems Programming, Network Architecture (TCP/UDP), Graph Theory, Software Engineering.

PROFESSIONAL EXPERIENCE

SAIETECH — Beijing, China
Software Engineering Intern — April 2025 – June 2025

- **Engineered** 4 interconnected management systems, automating **80%** of manual tasks and eliminating entry errors.
- **Architected** high-performance backend services, reducing latency by **60%** (3x gain) compared to legacy systems.
- **Developed** financial KPI dashboards for real-time visibility, adopted by executive management.
- **Optimized** supply chain workflows to resolve 2 critical bottlenecks, projecting a **20%** lead time reduction (simulated).
- **Created** an intuitive UX with a Redis-backed notification system, reducing operator training time from 5 days to 1.
- **Unified** enterprise data via ETL pipelines to ensure data consistency ("Single Source of Truth").

PROJECTS & RESEARCH

Web Security Audit & Protocol Analysis — *Personal Research*

- **Audited** anti-bot resilience (e.g., Cloudflare Turnstile) against automated behavioral analysis.
- **Analyzed** logical vulnerability patterns (Token Bypass, Race Conditions) within test environments to design countermeasures.
- **Developed** an experimental Python framework for **TLS Fingerprinting (JA3)** and anomaly detection.
- **Researched** protocol robustness, focusing on **TLS Handshake entropy** and **Mercure (SSE)** authentication flows.

Vinted Monitoring Bot — GitHub

- **Automated** tracking for 500+ daily listings with real-time notifications for 200+ active users.
- **Architected** a scraping system resilient to rate-limits using Python and **AsyncIO**.

UNIX Mini-Shell Implementation — *Academic Project*

- **Implemented** a POSIX-compliant interactive shell in **C**: process management ($fork/exec$) and file descriptor manipulation ($dup2$).
- **Developed** Inter-Process Communication (IPC) via pipes and handled system signals for job control.

TECHNICAL SKILLS

- **Languages:** Python, C (Systems, Pthreads, Sockets), Java, Haskell, SQL, JavaScript/TypeScript.
- **Frameworks & Tools:** React, Vite, Git, Docker, Redis, Mitmproxy, Charles Proxy, ETL Pipelines.
- **Expertise:** System Security, Reverse Engineering, Network Protocols (TCP/UDP), Design Patterns.

LANGUAGES

- **French:** Native | **English:** Professional Working Proficiency (B2)