

Rafaël Bachourian

SOFTWARE ENGINEER & BUILDER

Full-Stack Development · DevOps · AI/ML · Cloud Infrastructure

CONTACT

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github.com/Reathe

TECHNICAL SKILLS

- Python
- Java
- JavaScript · TypeScript
- Node.js · React · Next.js
- Machine Learning · NLP · PyTorch · OCR
- Linux · Docker · TrueNAS
- Traefik · Cloudflare · Oracle Cloud
- WireGuard · Tailscale · DNS / TLS
- Git · Algorithms & Data Structures
- API Integration · Testing

LANGUAGES

French
Native

English
Fluent

Armenian
Fluent

German
Basic

Profile

Software Engineer with a Master's degree in Artificial Intelligence and hands-on experience spanning full-stack web development, AI/ML research, and cloud/DevOps infrastructure. Comfortable owning a project end-to-end — from architecture and implementation through deployment, monitoring, and maintenance. R&D background in NLP, machine learning, and OCR using Python and PyTorch, paired with a self-taught, production-grade grasp of Linux, Docker, and networking from running a real self-hosted infrastructure.

Education

2022 – 2023 — **Master's Degree in Artificial Intelligence** Université Claude Bernard Lyon 1

2021 – 2022 — **M1 in Computer Science** Université de Lorraine

2018 – 2021 — **Bachelor's Degree in Computer Science** Université de Lorraine · MIM

2017 — **Baccalauréat ES** Lycée Alfred Mézières, Longwy

Experience

2023 – Present

Independent Software & Infrastructure Projects

- Build and deploy independent web applications and software projects, including an Armenian alphabet learning platform and custom websites
- Maintain a Linux-based self-hosted environment using TrueNAS and Docker for multiple services and applications
- Configure and maintain reverse proxies, DNS, TLS, remote access, networking, security, and monitoring
- Work with Traefik, Cloudflare, Tailscale, WireGuard, Oracle Cloud, and containerized services
- Handle projects end-to-end across development, deployment, troubleshooting, maintenance, and ongoing improvements

Linux · Docker · TrueNAS · Traefik · Cloudflare · WireGuard · Oracle Cloud

2022 – 2023

Research & Development Intern

CEDRIC Lab · CNAM, Paris

- Developed an NLP/ML pipeline to automatically categorise pedagogical activities and identify their semantic purpose
- Worked on OCR processing of PDF textbooks using Python and PyTorch to extract structured XML content for downstream analysis
- Worked at the intersection of NLP, linguistic engineering, and multimedia data analysis

Python · PyTorch · OCR · NLP

2018 – 2019

Academic Tutor & Conversation Facilitator

Université de Lorraine, Metz

- Tutoring in Algorithms for first-year students
- Facilitated English conversation groups

Selected Projects

Learn Armenian Alphabet

Next.js · React · TypeScript · Tailwind CSS · Drizzle ORM · PostgreSQL · Docker

Full-stack learning application for the Armenian alphabet, including containerized deployment configuration.

Raf & A Wedding

Web Development · Responsive Design · Multimedia · Deployment

Custom wedding website developed and deployed as a standalone web experience.

Discord League Notifications

Python · Discord API · Riot Games API · OpenAI API · SQLite · Docker

Automation bot that sends notifications when friends' League of Legends games end.

Spotify Data Visualization

Web Development · Data Visualization

Web-based visualization of listening habits across artists, albums, genres, sessions, and time.