

NIOUA YOUNES

Software Developer · Python & C#

Open to remote work — Belgium / EU

CONTACT

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Permit B & personal vehicle

TECHNICAL SKILLS

Languages

Python, C#, C, JavaScript, SQL, Bash,
HTML/CSS

Backend

FastAPI, Flask, SQLAlchemy (async), REST &
GraphQL clients, OAuth 2.0, webhooks,
PostgreSQL, SQLite

Frontend

React, Vite, responsive HTML/CSS

Infrastructure

Docker, Linux, Git, GitHub Actions, pytest, CI
pipelines

Security

Application security (SSRF, HMAC, rate limiting),
network hardening, Nmap, log & SIEM analysis,
NIS2 / CyberFundamentals

AI & Automation

LLM integration & orchestration, multi-agent
systems, workflow automation (n8n), web
scraping

LANGUAGES

French	Native
English	Fluent (C2)
Arabic	Basic (A2)

PROFILE

Developer who ships complete applications — authentication, tests, error handling, a deploy path — not prototypes. Backend-focused in Python and C#, with a security background that shapes how I code. Works best asynchronously, in remote teams.

SELECTED PROJECTS

shopify-sync — production Shopify application

Python, FastAPI, SQLAlchemy async, React · github.com/JonasN145/shopify-sync

- Supplier-feed to inventory & price sync engine, validated end to end against a live store; **~110 automated tests** in CI.
- Rules engine (margins, MAP floors, price-swing guards, stock buffers) producing a full **exception report** instead of failing silently.
- OAuth 2.0, HMAC-verified webhooks, GDPR endpoints, encrypted tokens; ingestion over HTTP, Sheets, FTP/FTPS and SFTP with **SSRF validation on every redirect hop**.
- Ran a full security review of my own code, fixing a subscription bypass and an SSRF-via-redirect.

Terminal emulator & remote shell hub

Electron, JavaScript, Node, xterm.js · [private](#)

- Client/daemon architecture — the app streams its interface from a daemon, so one machine drives shells running on another, with a local fallback.
- Measured before optimising, then cut the startup payload by **74 %** and made repeat launches near-instant — compression, cache revalidation, and a redundant cache purge removed.

Multi-agent LLM application & self-hosted automation lab

Python, Docker, n8n, model routing

- Desktop app coordinating specialised agents — tool calling, retrieval over a personal knowledge base, provider routing.

Twenty more projects on github.com/JonasN145 — web apps, data pipelines, security and networking tooling.

CYBERSECURITY

- **Security tooling (open source):** port scanner, web directory brute-forcer, SSH log analyser, file integrity monitor, subnet calculator.
- **Home SOC lab & offensive practice:** self-hosted detection and monitoring (VMs, Docker, IDS, log & SIEM analysis); TryHackMe and Hack The Box.
- **Compliance & hardening:** NIS2 / CyberFundamentals gap assessments for SMEs; firewall/VPN, segmentation, vulnerability scanning (Nmap).

EXPERIENCE

Freelance Developer

Self-employed · 2026 – Present · Remote

- Built and delivered automation tools for clients — web scraping, spreadsheet and data pipelines — removing hours of manual work per run. Full ownership: specification, implementation, tests, documentation and deployment.

Cybersecurity Engineering Intern

Alstom · 2022 · 3 months

- Executed cybersecurity test sequences on embedded electronic boards for rail systems, validating them against security requirements; diagnosed and documented findings for the engineering team.

EDUCATION

Bachelor in Cybersecurity & Counter-Terrorism

2025 – Present · HENALLUX

Networks, operating systems, databases, C programming, threat & risk analysis.

Bachelor in Computer Science

2023 – 2025 · Haute École Condorcet

Applied IT

2020 – 2023 · Université du Travail