

Laurentiu Robert Niculescu

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github.com/LaurentiuNiculescu | school-booking.app | meal-match.app

PROFILE

Software Engineer, three years in, and a Software Engineering student alongside it. I started on first-line IT support in 2023 and moved into building what the work needed: a 14,000-line Windows security auditing application in Python, a multi-tenant client management platform in TypeScript that two client companies run on, and two live web apps on Linux servers I provision, harden and maintain myself, one of them also on Google Play. The security side started because clients kept asking whether they were safe and I wanted a better answer than a shrug. Looking for a software engineering role in London.

SKILLS

Support 1st line support, hardware and software troubleshooting, system diagnostics, operating system installation and configuration, remote support, user support, technical documentation

Security Host hardening driven by Lynis audits, fail2ban, ClamAV, UFW and nftables, SSH key-only authentication, vulnerability assessment, patch and end-of-life auditing, SPF/DKIM/DMARC, Cyber Essentials control mapping

Infrastructure Linux server administration (AlmaLinux, Debian), VPS provisioning, nginx, WireGuard site-to-site VPN, MeshCentral RMM, encrypted off-site backups, pm2

Networking TCP/IP, DNS, router and firewall configuration, VLANs, Unifi access points, small network design

Systems Windows, Windows Update and WinRM administration, macOS, Linux

Programming Python, JavaScript, TypeScript, C#, HTML, CSS, SQL, Bash

Frameworks React, Node.js, Express, Vite, Mongoose, Tkinter, Tailwind CSS

Data and tools SQLite, MongoDB, Git, Visual Studio Code, PyInstaller, Stripe API, REST APIs

EXPERIENCE

Software Engineer, Alpha IT Solutions, London June 2025 - Present

- Build and run the software the business uses and sells: a Windows security auditing tool in Python, a multi-tenant client portal in TypeScript that two client companies run on, and two live web apps. Front end, back end, and the servers underneath.
- Provision and harden the Linux servers the business runs on. SSH cut back to key-only, fail2ban on anything exposed, host firewall through UFW, ClamAV on the paths that matter, and the whole box re-checked against a Lynis audit after every change.
- Every hardening script I write backs up what it is about to touch and can be run twice without doing harm. That rule exists because I once changed a working config with no way back.
- Set up remote monitoring and management across client machines using MeshCentral, including a nightly encrypted backup that pulls off-box over a WireGuard tunnel.
- Audited the business's own domains for SPF, DKIM and DMARC, and found most of them on p=none with no reporting address configured.
- Still take first-line calls. Writing the tooling has not replaced knowing what breaks.

Junior IT Technician, Alpha IT Solutions, London June 2023 - June 2025

- Diagnose and fix hardware and software faults for small business clients, first line, usually with the client standing over the machine.
- Install and set up new hardware, software and operating systems.
- Wrote the support guides for the jobs that came in twice. Repeat calls on those dropped off.
- Explain the fix in plain terms, and say plainly when a machine is not worth repairing.

PROJECTS

ShadowAudit - Windows network security auditing tool Ongoing

github.com/LaurentiuNiculescu/shadow-audit

Python, Tkinter, Pillow, PyInstaller, WinRM

- 14,000 lines of Python. Runs 17 read-only posture checks against a Windows host, rates each finding by severity, attaches the evidence it used, and maps the result to the relevant Cyber Essentials control.
- Queries Windows Update directly for missing patches, and flags end-of-life software.
- Audits other Windows machines over WinRM. Credentials stay in memory for that run and never touch the disk.

- Port scanning and service identification are built in rather than shelling out to nmap, which keeps the licensing clean for commercial use.
- Differs a new audit against the previous export: what got resolved, what is new, what is still open.
- Two companion tools. ShadowBreach proves a finding is actually exploitable before anyone panics about it. ShadowFix closes it, refuses to apply anything it cannot reverse, and defaults to a dry run.

Client Management Platform - multi-tenant MSP portal

Ongoing

TypeScript, Node.js, Express, React, SQLite, JWT, bcrypt, RMM and monitoring API integration

- 15,000 lines of TypeScript. Every client company gets its own isolated database, created when the company is added and destroyed with it, so one client's data cannot surface in another client's view.
- Six roles across two tiers. I split one overloaded permission check into two questions: may this person see every client, and may they create accounts. Collapsing those meant giving someone read access also handed them the power to make logins.
- TOTP two-factor authentication, and a session version carried in every token, so changing a password signs out every other device without keeping sessions on the server.

KitDesk - equipment booking and asset tracking

June 2025 - Present

[school-booking.app](#) | [Google Play](#)

React (Vite), Tailwind CSS, Node.js, Express, MongoDB, Mongoose, JWT, Capacitor, self-hosted VPS

- Full-stack platform for tracking equipment across sites: who has what, where it is, when it is due back. Live on its own domain, and approved on Google Play in August 2026.
- White-label by design. The product name, colours, feature flags and the wording for every object live in one JSON file the React app fetches at runtime, so a single build serves every customer and a new deployment needs no rebuild.
- QR code per asset, scanned with the device camera to check kit in and out. Uses the browser BarcodeDetector where it exists, falls back to jsQR on iOS, then to typed entry when the camera is blocked. Nobody types serial numbers.
- I provisioned the VPS it runs on and still maintain it, along with the production database and every deployment.

MealMatch AI - meal planning built on generative AI

January 2026 - Present

[meal-match.app](#)

React, Node.js, Express, MongoDB, Anthropic Claude API, Stripe, Nodemailer, Tailwind CSS

- Generates a 7-day meal plan, the shopping list that goes with it, and a matching workout routine. Under a minute, start to finish.
- The prompt engineering was the hard part. A plan has to hit a real budget in pounds and stay inside it, and the recipes have to look right to somebody actually from that country rather than a flattened approximation of it.
- Stripe Embedded Checkout takes payment. Email verification through Nodemailer and bcryptjs password hashing keep throwaway accounts off the AI endpoints. Four languages: English, Romanian, Spanish, Italian.

EDUCATION

BSc Software Engineering, Regent College London

Expected 2029

Modules so far: Introduction to Programming, Data Structures, Software Development, Network Configurations

INTERESTS

- Home lab: Unifi hardware, VLANs, access points and a couple of local servers on a WireGuard mesh. Most of the networking and Linux I know started there.
- Building and repairing custom PCs. Bouldering, and board games with too many rules.

REFERENCES

Available on request. The portfolio is not: the ShadowAudit source is public, both web apps are live, and I am happy to walk through the code behind any of them.