# Jiří Pelikán

Full-stack developer and UX/UI designer

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## PROFESSIONAL EXPERIENCE

**Full-stack Developer & IT Administration** 09/2024 - present

ZŠ Komenského, Nové Město nad Metují

School website development: Nuxt, TypeScript, custom CMS, API, PostgreSQL, search and calendar.

Docker deployment, backups, monitoring and Playwright E2E tests. School IT administration and automated reporting with Apps Script.

**Freelance Full-stack Development** 07/2025 - present

Freelance

Client websites, from interface design through implementation and deployment.

**IT Technician - Network Infrastructure** 10/2025 - present

DLNK s.r.o.

Wi-Fi, access points and network cabling design and maintenance. Hardware support, user accounts and Google Workspace administration.

## TECHNOLOGIES

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|---|---|
| **Web & data** | TypeScript / Vue / Nuxt / Node.js / PostgreSQL |
| **Applications** | Rust / Python / Kotlin / Java / Tauri / PySide6 / Compose |
| **Operations & security** | Docker / Linux / VPS / Nmap · Zeek · Suricata |

## SELECTED PROJECTS

**Passive Traffic Analysis**

Bachelor's thesis · security

Academic Rust prototype: network service inventory, CPE/CVE/CVSS context and correlation with Suricata and Zeek records. CLI, server and web interface.

**Java CPU Path Tracer**

3D renderer

3D editor and renderer in plain Java 17, no libraries or GPU: ray tracer, path tracer, SAH BVH, denoising, OBJ/glTF.

**GameHub**

Desktop application

Python / PySide6: nine logic games with separate engines, UI and solvers. Tests and packaged releases for Windows and Linux.

## EDUCATION

**Software Engineering - Master's programme** 2026 - present

FIM UHK / combined study mode

**BSc Applied Informatics - Software Engineering** 2023 - 2026

FIM UHK / University of Hradec Králové

## LANGUAGES

Czech - native / English - B1, reading technical documentation