

Bc. Adam Kurek

SOFTWARE ENGINEER · OPEN TO REMOTE

I build production software - government security platforms, enterprise admin tools, real internal systems. 5 years coding, 4 shipping. I design what I build - every project I worked on, I designed myself.

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EXPERIENCE

Ardaco a.s.

~2 YEARS

SOFTWARE ENGINEER

Primary engineer on a security-certified enterprise admin console (Vue 3, air-gapped delivery). Plus a secure-communications platform - post-quantum VPN, a smartcard-auth secure-workspace endpoint, and the CA / management console. Flask + PostgreSQL; PKI and a Qt device layer.

Ministry of Interior (SK)

~2 YEARS

FULL-STACK ENGINEER

Solo builds - a classified-records platform (20 entities, 136 endpoints), a security-clearance vetting system, and an accommodation-lifecycle app with a one-way DMZ→intranet sync.

Freelance

ALONGSIDE

ENGINEER

Internal tools, dashboards, websites - shipped end to end for institutes.

SELECTED WORK

01

Certified Enterprise Admin Platform

Air-gapped admin console. Auth hardening, RBAC, and bulk editing that stays smooth at 1,900 users.

02

Hardened Secure-Workspace Endpoint

A smartcard-auth Linux kiosk that replaces the OS login. The fail-safe that makes a stolen card impossible to lock.

03

Classified-Information Records Platform

My first production project. Hierarchical access control across 20 entities and 136 endpoints.

04

Security-Clearance Vetting Platform

An extension of a live government platform. The whole clearance lifecycle on top.

05

Accommodation Lifecycle Platform

A one-way sync between a public and an internal zone. A pre-launch security audit.

06

Local-First Operations Dashboard

A zero-data-loss save engine with no backend. Built for one user, me.

SKILLS

DESIGN · 4Y

Figma · UI/UX for every project I built · design-first workflow

LANGUAGES · 4-5Y

Python · JavaScript / TypeScript · SQL · Bash · HTML / CSS

FRONTEND · 4Y

Vue 3 · Nuxt 3 · React 18 · Pinia · Tailwind CSS · TanStack · Vite

BACKEND · 4Y

Flask · FastAPI · SQLAlchemy · JWT + LDAP auth · REST API design · Claude API

DATABASES · 4Y

PostgreSQL · Alembic migrations

DESKTOP / SYSTEMS · 2Y

PyQt / Qt · PKCS#11 smartcard auth · systemd · TPM2 + LUKS · Linux internals

SECURITY / PKI · 2Y

X.509 PKI · post-quantum VPN (ML-KEM over IPsec) · OpenSSL · zero-trust attestation

DEVOPS / INFRA · 3Y

Docker · nginx · Linux administration · AWS · Vercel · Supabase · Git

TESTING · 6MO

Playwright E2E · Vitest · Selenium

AI-AGENTIC · 2Y

Claude Code daily · MCP servers · autonomous 24/7 agent loops · prompt engineering

EDUCATION

Bachelor's Degree · Computer Science

2026

UNIVERSITY OF SS. CYRIL AND METHODIUS IN TRNAVA · FACULTY OF NATURAL SCIENCES

Thesis on modern backend solutions. Passed the state finals with straight A's and received the **Rector's Award**.

Secondary School of Electrical Engineering

2018-2022

SPŠ TRNAVA · ELECTROTECHNICS

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