

# Cornell Shakh

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## EDUCATION

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### University of Finance and Administration (VŠFS)

*Bachelor's in Marketing Communication*

Prague, Czech Republic  
Sep 2025 – Present

### 1. KŠPA Kladno

*Secondary School Diploma in Information Technology*

Kladno, Czech Republic  
Sep 2021 – Jun 2025

- Graduated from the Information Technology track.
- Graduation seminar project: *Digitalizace státní správy* (Digitalization of Public Administration).

## TECHNICAL SKILLS

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**Programming Languages:** TypeScript, JavaScript, Python, Go, SQL, C++, C#

**Software/Tools:** React, Next.js, Tailwind CSS, Astro, NestJS, Flask, SQLAlchemy, PostgreSQL, MySQL, Git, Docker, Linux, Make/CMake, LLVM, HTML/CSS, Shell/Bash

**Spoken Languages:** Czech (native), English (C2), Russian (C2)

## WORK EXPERIENCE

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### Independent

*Full-Stack Engineer*

Remote  
Sep 2024 – Present

- Develop production web applications and internal tools with end-to-end ownership, from architecture and APIs to data flows and frontend implementation.
- Build authentication flows, dashboard interfaces, workflow tooling, and external integrations used in day-to-day operations.
- Improve shipped products through debugging, UX refinement, and reliability-focused iteration.

### Independent

*Software Developer*

Remote  
Sep 2022 – Aug 2024

- Built and sold commercial desktop software in C++ with hardware-based licensing, backend verification, and controlled distribution.
- Developed automation software for timing-sensitive, real-time multi-account workflows where coordination, reliability, and performance were critical.
- Managed the full product lifecycle independently, including implementation, distribution, licensing, updates, and support.

### Independent

*Freelance Developer*

Remote  
Jan 2020 – Aug 2022

- Built websites and web applications for clients, from initial scoping and implementation through launch.
- Worked directly with clients on requirements, revisions, and project delivery.

## PROJECTS

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### Dska

*dska.cz*

- Built a web product for Czech businesses looking for a more practical alternative to the Czech government's official digital mailbox system for secure, legally recognized communication with public institutions.
- Implemented the full stack using NestJS, Next.js, Go, and ISDS integration.

### Ombra

- Developed a full-stack internal admin system for a game development company to manage products, subscriptions, and internal operations.
- Built it using React, Tailwind CSS, Flask, and SQLAlchemy.

### Skill

- Built a native licensing and authentication system for controlled desktop software distribution.
- Developed a Windows client and server-side verification system in C++ with hardware-based authentication and Winsock networking.
- Applied LLVM-based obfuscation and anti-reverse-engineering techniques to harden the client.

### Stealth Sniper

- Built a commercial automation product for real-time multi-account workflows.
- Originally developed in C# and later rewritten in C++ to improve control over timing-sensitive, high-speed execution, coordination, reliability, and performance.