

Education

- BSc. Charles University, Faculty of Mathematics and Physics** Oct 2022 – June 2025
Computer Science with Specialisation in System Programming
- **Practical coursework:** Operating Systems, Compilers, Functional Programming, High-Performance and Parallel Software, Advanced C++, Rust
 - Strong foundation in algorithms and data structures, computer architecture, discrete mathematics, probability theory, linear algebra and others
 - **Thesis:** HelenOS compilation target for the Rust programming language. Defended in June 2025 with grade Excellent.

Work Experience

- Apify** 🌐, Web Automation Developer / Node.js Engineer (*part-time*) Prague, Czechia
June 2022 – June 2025
- Developed **end-to-end solutions for customers' scraping and web automation projects**. Optimized a large dataset processing pipeline by introducing Redis caching.
 - Contributed to Apify's **open-source projects**, notably the Crawler web scraping library. Optimized Docker images for better build cache utilisation and smaller size.
 - Pioneered **integration with modern developer tooling**, connected Apify's custom CI with GitHub PR reviews and commit status checks.

Volunteering Experience

- Protab** 🌐 **summer camp**, Lecturer and Organizer Mar 2023 – present
- Gave lectures and practicals for high school students about programming, algorithms, hardware principles, networking and other computer science topics.
 - Prepared an 'Escape room' adventure with the use of microcontrollers and interactive software minigames.
- European Youth Parliament** 🌐, Delegate, Chairperson, Head Organizer Nov 2018 – Jan 2022
- Participated in a total of 8 student-led conferences in Czechia and abroad and organized a 4-day conference for 120 participants.
 - Enhanced teamwork, leadership, public speaking, and project management skills in an international setting.

Other Projects

- Roborally** GitHub repository 🌐
- High school graduation project. Browser-based remake of the famous board game.
 - Developed a full-stack application using JavaScript and Rust, gained experience with real-time communication using WebSockets.

Server Administration

- Deployment of custom software and web applications onto a private server, as well as administration of well-known open-source services including PostgreSQL, Grafana monitoring suite, and a mail server.
- Hands-on experience with containerisation technologies, Docker compose, and other tools used in this space.

Skills

High level of proficiency with all the technologies listed below. Minor experience with many other technologies, ability to quickly adapt and learn new tools, especially if they are similar to those already known.

Programming languages: Rust, JavaScript, TypeScript, Python, C, C++

Databases: SQL (PostgreSQL, SQLite, MySQL), Redis, MongoDB

Others: Git, Docker, Linux, Grafana, Web Technologies (React, Svelte, Solid.js, Node.js, WebSockets, WebAssembly)

Security: Winner of [Czech Cybersecurity Competition 2025](#) 🌐, knowledgeable in cryptography, web security and other topics.