Matěj Volf

Prague, Czechia || matej@mvolfik.com || +420 778 259 280 || mvolfik.github.io || mvolfik

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 Crawlee 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. Took on different roles and ultimately became a Head Organizer of a 4-day hybrid (in-person and online) 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.