

Matěj Volf

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Education

- BSc. Charles University, Faculty of Mathematics and Physics,** Oct 2022 – present
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 and linear algebra
 - **Thesis (*in progress*):** HelenOS compilation target for Rust programming language.
- BSc. Charles University, Faculty of Arts,** Oct 2024 – present
Germanic and North European Studies with Specialisation in Danish and Finnish
- **Coursework:** Danish and Finnish language, linguistics, literature and history

Work Experience

- Apify,** Web Automation Developer / Node.js Engineer (*part-time*) Prague, Czechia
June 2022 – Sept 2024
- 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 utilization 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.