

# Matěj Volf

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## Education

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- 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, linear algebra and others
  - **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

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- 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 Crawllee 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

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- 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

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- 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.