

Martin Ševčík

Computer Science Student

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Profile

Second-year Computer Science student at Brno University of Technology seeking a summer internship or junior software-engineering role. Comfortable with multiple programming languages and eager to apply theory in practice. Currently focusing on reinforcement learning for my bachelor's thesis in artificial intelligence.

Education

- 2023 – present **B.Sc. in Information Technology**, Faculty of Information Technology, Brno University of Technology, Brno
2nd year
- 2019 – 2023 **General Gymnasium**, Gymnázium Uherské Hradiště, Uherské Hradiště

Work Experience

- 2022 **Quality Control Technician (part-time)**, KOVOKON Popovice s.r.o., Kunovice
- Operated and supervised CMM measuring machines
 - Edited measuring scripts and analysed output data
 - Cooperated with production to identify and resolve non-conformities

Selected Projects

- Compiler IFJ24(Zig)** C; hand-written lexer and LL parser, semantic analysis, IFJcode24 intermediate-code generator; team of 4.
- “Evenmate” App** Mobile app for shared expenses; QR onboarding, debt optimisation; React Native (Expo), TypeScript, Supabase Auth + PostgreSQL.
- SOL25 Interpreter** Smalltalk-like VM with dynamic dispatch and closures; XML parser; Python, PHP.
- “Love4Music” App** Manage favourite albums via Spotify Web API (OAuth 2.0); SwiftUI, Core Data.
- Network Tools** C++; L4 port scanner (TCP/UDP, IPv4/IPv6) and CLI chat client (custom TCP/UDP protocol).
- FSM Tool** Visual FSM automata editor and real-time UDP monitor; C++, Qt 5, JSON.

Technical Skills

- Programming Languages** C, C++, Python, Swift, JavaScript/TypeScript, PHP, SQL
- Frameworks & Tools** React Native, Expo, Supabase, Git, LaTeX, CMake, Make, Bash, Figma, Cypress, Doxygen
- Databases** PostgreSQL, SQLite
- OS** Linux, macOS, Windows
- Other** Networking basics, database design, OOP, design patterns, algorithms, reinforcement learning

Languages

- Czech native
- English B2