

Petr Plíhal

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Junior Software Developer

Profile

I am a Junior Software Developer who enjoys working on meaningful and impactful projects. I am not afraid of new challenges and I enjoy learning new technologies and approaches. I have been involved in IT for 7 years, building a solid technical foundation through both my studies at **Brno University of Technology (FIT VUT)** and through independent projects.

I focus mainly on backend development with **Python** (e.g., **Flask**) and data modelling with **SQL** (MySQL).

I am comfortable working in a **Linux (CLI) environment** and I actively use **Git**. I also have experience with **Docker** and a working knowledge of **C/C++**.

Programming Languages

- Python
- SQL
- C/C++

Tools and Technologies

- Git & GitHub
- Linux (CLI)
- Docker
- VSCode
- Latex

Certifications

- Angličtina C2 – Cambridge English
- CCNA – Basic Cisco Networking
- ECDL Core – Digital Literacy

Education

Brno University of Technology , Faculty of Information Technology	2022 – 2025
SSTE, Brno – Olomoucká , Field of study: Computer Science	2017 – 2021

Projects

Information System for an Art School github.com/petr-plihal/is-for-art-school

- Team project (3 members). Designed and implemented an information system for managing equipment loans and studio bookings for an art school. Focused on UX and user management (roles, permissions, authentication, registration).
- Technologies used: Flask, SQL (MySQL), HTML + CSS

Web Application for Managing RPG Groups github.com/petr-plihal/ttrpg-group-manager

- Team project (4 members). Conducted market research, validated the proposal and final application with real potential users. Designed and implemented the database. Backend in Django, frontend in Vue. Managed project workflow in Trello. Project documentation created with LaTeX.
- Technologies used: Django, Vue, Trello, SQL (MySQL), LaTeX

Database for a Doctor's Office github.com/petr-plihal/doctor-office-db

- Designed and implemented a complex data model (ERD) for a general practitioner's office using Oracle SQL. The solution included advanced database objects ensuring data integrity and consistency (triggers, procedures) and performance optimization (indexes, views). Additionally, I created a Dockerfile to ensure easy deployment and reproducibility.
- Technologies used: SQL, LaTeX, Docker

Work Experience

Warehouse and Maintenance Assistant, Dieffenbacher, Brno January 2022 – December 2022

Administrative Assistant, Dieffenbacher, Brno May 2021 – September 2021

Professional Internship, Aqua Engineering s.r.o. June 2020 – September 2020

- Research and hands-on work with Arduino-based embedded systems for measurement applications.

Instructor, Strojírna Oslavany June 2018 – February 2020