Patrik Mitterpach

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Education

- **Faculty of Information Technology, Czech Technical University** Prague, Czech Republic
  Focus: Artificial Intelligence, GPA: 1.5, no degree earned. *September 2021 - July 2023*
  Courses: Programming and algoritmization, Database systems, Machine Learning, Software Development Technologies, Programming in Python, Data visualization
- **Faculty of Informatics and Statistics, University of Economics** Prague, Česká Republika
  Focus: Applied Informatics, GPA: 1.8 *September 2023*

Skills

- **Programming**: Python, Java, JavaScript
- **Frameworks**: Pandas, Matplotlib, Scikit, Numpy, PyTorch
- **Tools**: HTML & CSS, Git, Bash, PostgreSQL, MySQL, ASM, LaTeX, Markdown
- **Platforms**: Linux, Windows, Arduino, Android (adb)
- **Languages**: Slovak (Native), English (C2), Czech (written)
- **Soft Skills**: Technical documentation, English C2 (*Cambridge English Qualifications*)

Experience

- **Digiteq Automotive** Hybrid
  Junior Python Developer (Part/Full-time) *July 2022 - September 2023*
  - **Automated interaction with an Android device with Python**: CRUD development for setting and programming an integrated device, Bash for ADB interaction.
  - **Creation and maintenance of internal documentation**: Setting and ensuring standards of technical writing within the team.
  - **Dynamic and modern workplace**: Making use of Agile and Scrum methodologies to deliver a premium automotive product.

Projects

- **Denné Krížovky**: WebApp offering a daily crossword puzzle. All the puzzles are automatically generated with a Python backend and served over JavaScript. Demo available at mitterpach.dev/crossword
- **chess_board_encoder**: Program aimed at one simple goal - encoding a state of a chess board with the least number of bits possible. Programmed in Python, allows for both encoding and decoding a state of the board, along with any misc. information required. Utilises low-level programming concepts, such as bitshifts or manipulation of binary files. Tech: Python
- **f1db**: Complex database model depicting the dynamic reality of the top motorsport competition. Model encompasses 12 entities and 25+ diverse SQL queries. Semestral work for the BI-DBS course, earning 100% of the available points, placing in the top 1% of all participants. Tech: PostgreSQL (April '22)
- **mitterpach.dev**: Tiny compact personal website/blog built atop GitHub pages. Complete with open-source code, modern design and a custom domain. Tech: Vanilla HTML & CSS