Patrik Mitterpach

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EDUCATION

- **Faculty of Informatic Technologies, Czech Technical University** — Prague, Czech Republic
  Focus: Artificial Intelligence, GPA: 1.5 — *September 2021*

  Courses: Programming and algoritmization, Database systems, Machine Learning, Software Development Technologies, Programming in Python, Data visualization

- **Faculty of Informatics and Statistics, University of Economics** — Praha, Česká Republika
  Focus: Applied Informatics, GPA: 1.8 — *September 2023 - Dnes*

SKILLS

- **Languages**: Python, C/C++
- **Frameworks**: Pandas, Matplotlib, Scikit, Numpy, PyTorch
- **Tools**: Git, Bash, PostgreSQL, MySQL, ASM, LaTeX, Markdown
- **Platforms**: Linux, Windows, Arduino, Android (adb)
- **Soft Skills**: Leadership, technical documentation, English C2 (*Cambridge English Qualifications*)

EXPERIENCE

- **Digiteq Automotive** — Hybrid
  Junior Python Developer (Part/Full-time) — *July 2021*
  - **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**: Taken ownership over setting and ensuring standards of writing.
  - **Dynamic and modern workplace**: Making use of Agile and Scrum methodologies to deliver a premium automotive product.

PROJECTS

- **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. Complete with automated testing. 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 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, handcrafted design and a custom domain. Tech: Vanilla HTML & CSS