

Šimon Růžička

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Location: Prague, Czechia
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TECHNICAL SKILLS

Languages : Python, C/C++, Julia, R
Libraries : numpy, pandas, PyTorch, Keras, matplotlib, PIL, scikit-learn, NiceGUI, pytest
Technologies : GNU/Linux, bash, PostgreSQL, L^AT_EX, Wolfram Mathematica, Jupyter
Dev tools : Git, Gitlab, PyPI, Conda, Google Colab, Make, Doxygen

EXPERIENCE

Software Developer Jun 2023 – Oct 2023
Photonic Technologies s.r.o. Prague/Roztoky, Czechia

- Development of multiple projects in **Python** and **C**
- Tight collaboration with the design of custom hardware

Teaching assistant - Programming in C Sep 2022 – Jan 2023
Faculty of Information Technology CTU in Prague Prague, Czechia

- Practice lessons of the **Programming and Algorithmization 1** course
- Part of a special programme for **student initiative** in the learning process

Onsite IT Support Jul 2022 – Dec 2022
Kongresové centrum Praha, a.s. Prague, Czechia

- Technical support for the **EU Presidency** international conferences

PROJECTS

NN@FPGA Verilog, AMD Vivado, Python, C

- Low-level **neural network implementation** on FPGA using Verilog
- Team project created at TUM with further development potential

PixelArtConv (PyPI) Python, PIL, numpy

- **Python utility** converting any image to a **pixel-art style**

Onono! The Puzzle Game Python, pygame, PIL

- Classic color filling **puzzle game** created in pygame as a school semestral work
- Own images can be converted into custom game puzzles

EDUCATION

Faculty of Information Technology CTU in Prague Prague, Czechia
Bachelor/Undergraduate Jul 2021 – Jul 2025

- General study programme **Informatics**, specialization **Artificial Intelligence**
- Weighted grade average **1.15** for the first five semesters

Technical University Munich Munich, Germany
Erasmus study exchange Oct 2023 – Feb 2024

LANGUAGES

- English - Certified C1 level by the University of Cambridge
- Spanish - B1 level, German - Elementary knowledge (A1)