

Janek Hlavatý

Python Engineer • CS Student, Charles University

Personal Information

Born	2003
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Work Experience

8/2025 – present	MycroftMind – Python Engineer End-to-end pipeline development for acquisition of meteorological and energy data from embedded devices (sky camera, weather station, PV inverters) to Azure VM via MQTT. Responsible for data model design and pipeline architecture — from collection on the physical device through transport to distribution into analytics frontend and predictive model. Ansible management and monitoring of 10+ production instances.
6/2024 – present	Zkoušky v klidu (Exam Prep) – Mathematics Tutor Teaching up to 15 students in online and in-person format, preparation for national entrance exams. Custom test creation, result evaluation and parent communication. Automated post-test result delivery via Python.
1/2023 – 6/2023	ICZ – Linux Intern Custom Debian image for deployment on a network card — initrd modification, service configuration and boot process optimisation. Bash scripting.

Education

2023 – present	Charles University, Faculty of Mathematics and Physics (MFF UK) Field of study: General Computer Science. <i>Key subjects:</i> Deep Learning (NPFL138), Machine Learning, Algorithms and Data Structures, Operating Systems, Linear Algebra, Numerical Mathematics, Combinatorics and Graphs, Discrete Mathematics, Programming in C++ and Python.
2015 – 2023	J. V. Jirsík Grammar School Eight-year general grammar school with Maturita (school-leaving exam).

Technical Skills

Python	asyncio, aiohttp, FastAPI, pydantic, PyTorch, uv – automation, data pipelines, AI tooling
C / C++	kernel development (userspace, preemptive scheduling), parallel applications
Linux & Infra	self-hosted server, Docker, Ansible, service management, networking
Tools	Git, Bash, SQL, TeX

Projects and Volunteering

C++	Fractaler Rendering the Mandelbrot set with parallel pre-computation of possible user movements.
Python · Linux	Local LLM Server Hardware selection and assembly with dual RTX 3090. Deployment of Ollama with Gemma, custom frontend and tooling for multi-user access. Server managed via PyInfra.
Long-term	KSP (Correspondence Seminar in Programming) Organizer of the seminar under the auspices of MFF UK. Creation of algorithmic tasks, leading expert lectures for high school students, and administration of technical infrastructure.
Long-term	Protab (Programming Camp) Organizer and camp leader. Preparation of a program focused on IT and logic, working with children, ensuring the running of the camp.

Language and Other Skills

Languages	Czech (native speaker), English (B2, FCE), German (basics)
Driver's license	Category B
Certificates	ZZA (Camp Medic)