Tomáš Mach

Backend Developer | Python & Django

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ABOUT ME

Backend developer with 3+ years of experience in industrial environments. Specializing in Python, asynchronous programming, and IoT systems. I take ownership of my code and embrace new technologies. Quick to adapt and skilled at leveraging modern tools including AI.

WORK EXPERIENCE

Software Developer
10/2022 – Present

Prusa Development a.s., Prague

Developing software for filament production line automation:

- **Automatic Dosing Unit Calibration** – End-to-end system. MQTT data collection, stability analysis, calibration factor calculation, automatic Modbus adjustment.
- **Server Room Access Monitoring** – Integration of access control, cameras, and internal database. Automatic logs with video documentation.
- **Credential Leak Management System** – Django app for IT. CSV processing, employee filtering, Slack notifications.

Cameraman / Photographer
08/2021 – Present

Freelance

Video and photo coverage of music events and concerts.

Drone Engineer
07/2021 – 10/2022

DronPro s.r.o.

Development and maintenance of professional drones. DJI Phantom 4 Pro/RTK, Matrice 300 RTK, Zenmuse cameras.

Production Operator
03/2020 – 08/2021

Prusa Manufacturing a.s.

Operation and maintenance of 3D printers at the production farm.

TECHNICAL SKILLS

Programming
Python (advanced) – Asyncio, Django, NumPy, Threading

Technologies
MQTT, Docker, Git, Linux, PostgreSQL

Other
3D Printing (expert), Autodesk, AI/LLM tools

EDUCATION

Technical High School Prosek – Mechatronics
2016 – 2022, High School Diploma

LANGUAGES

Czech – Native (C2)
English – Advanced (C1)

PREFERENCES

Remote / Hybrid • Prague