

MICHAL KOWALSKI

JUNIOR PYTHON DEVELOPER

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Polish - Native | English - B2/C1 | Japanese - A1

<https://www.linkedin.com/in/michalk> • Citizen of Poland

I'm a Python-focused developer with a background in computer science and a passion for building intelligent, expressive tools with attractive visuals. A major highlight of my career so far is my Bachelor's thesis project: an interactive Python application designed to enhance guitar improvisation skills. What sets me apart is my dual discipline. Music and technology has not only enriched my programming skill set but also deepened my appreciation for the art of problem-solving.

AREA OF EXPERTISE

Languages / Frameworks: Python 3, PyQt5/6, QtQuick/QML, PySide6, pytest, Pandas, NumPy

Design / UX: Qt Designer, Qt Creator, Figma

Data & Monitoring: PostgreSQL, InfluxDB, Grafana

DevOps: Git, GitLab CI/CD, Docker, GitHub Actions

Process & Tools: Linux, Bash, VS Code, Jira/Scrum

AI / ML Libraries: PyTorch, TensorFlow | Deep-Learning, Generative AI, LLM/NLP

Front-End: React, JavaScript, HTML, CSS, FastAPI/REST

KEY PROJECTS

- **Interactive computer program for developing more skills in guitar improvisation** ([LINK](#))
 - This project combined real-time audio processing, data filtering, and a responsive user interface, with a focus on FFT algorithm. reflecting both my technical and creative strengths. It was written in Python with various libraries like Pandas, NumPy, SciPy, Pedalboard by Spotify, Threading, PySide6, Qt Designer, and python-sounddevice.
 - [Git Repository](#)
- **My music site** ([LINK](#))
 - Built and deployed the official website for my progressive-metal project using technologies: Figma for designing UI / UX, React 18, Vite, CSS, daisyUI component library, CI/CD with GitHub Actions, and deployed using.
 - [Git Repository](#)

PROFESSIONAL EXPERIENCE

March 2025 - May 2025

Radom Power, Italy - Freelancer

- **GUI application** ([LINK](#))
 - Presents the external hardware equipment for quantum random number generator, used technologies: PyQt6, Python, Grafana, InfluxDB, Docker, HTML, CSS, AI

EDUCATION

Technical college of informatics

September 2016 - June 2020

Bachelor of Computer science

October 2020 - May 2024

- Czestochowa University of Technology, Poland
- Grade 4

ADDITIONAL INFORMATION

Certifications

- IBM AI Engineering / IBM Generative AI Engineering

Music Producer & Guitarist (Pseudonym: [Wolfbard of Veles](#))

- Compose and produce original music, blending styles like folk, metal, progressive rock and electronic
- Collaborate with artists on projects; self-manage recording, mixing

Animation & Storytelling Enthusiast

- Deep appreciation for Studio Ghibli's artistic narratives and music compositions

Driving license: Category B

WHY MAKING MUSIC MAKES ME A BETTER PROGRAMMER

- Pattern Recognition and Abstract Thinking
- Discipline and Persistence
- Creativity and Innovation