PIOTR MIGDAŁ, PHD

deep learning specialist, technical visionary & leader

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INTRO

I am open to ambitious challenges combining AI with end-user experience.

Ideal roles include data science tech lead, head of AI, technical product manager, and CTO.

EXPERIENCE

AI consultant
self-employed

📅 2023 – now   📍 remote & Warsaw, Poland

- Bridging the gap between AI and user experience.
- Recent projects: AI in medical diagnosis, designing data flow for game asset generation, and serving as tech lead for a conversational AI startup.
- Key tech: Python, PyTorch, TypeScript, OpenAI.

co-founder & CTO
Quantum Flytrap

📅 2020 – 2022   📍 Singapore & Warsaw, Poland

- Bringing quantum computing to businesses via an accessible IDE.
- Raised a VC-backed pre-seed round.
- Led the development of a state-of-the-art numerical engine, which performs quantum computation in real-time in the browser.
- Delivered the IDE for Pasqal, a leading quantum hardware manufacturer.
- Created Virtual Lab – used at Stanford and Oxford universities, nominated to the 27th Webby Awards, alongside NASA and OpenAI.
- Key tech: TypeScript, Vue, Rust, WASM, quantum computing.

AI researcher
ECC Games

📅 2020 – 2021   📍 Warsaw, Poland

- Designed and led implementation of deep learning models for simulating racing car physics & unsupervised image segmentation.
- Key tech: Python, PyTorch.

machine and deep learning consulting
independent

📅 2015 – 2019   📍 US, Europe

- Training and consulting for: deepsense.ai, Intel, Nielsen, Samsung Research, and BCG.
- Key tech: Python, Jupyter Notebook, Scikit-learn, PyTorch, Keras.

data science and data viz freelancing
independent

📅 2014 – 2015   📍 remote & Warsaw, Poland

- Selected clients: Data4Cure, Startup Compass, Laboratorium EE.
- Key tech: Python, Pandas, NumPy, SciPy, JavaScript, D3.js.

LIFE PHILOSOPHY

"You live as long as you learn."

BEYOND WORK

livelossplot
Developed a popular Python library for visualizing deep learning model training, with over 2M installations.

Data Science PL
Created the largest data science community in Poland – over 25k members.

RSI & IPhO
Alumnus of the MIT Research Science Institute, an International Physics Olympiad bronze medalist.

Popularity
Over 15 of my projects and writings have been featured on the Hacker News front page.

Broad interests
19 research publications in physics, mathematical psychology, educational games, and data visualization.

LANGUAGES

Polish   English

EDUCATION

PhD in quantum optics theory
ICFO – The Institute of Photonic Sciences

📅 2011 – 2014   📍 Castelldefels, Spain

- Maciej Lewenstein's group.
- Reviewed by Seth Lloyd (MIT).

MSc in physics, BSc in mathematics
University of Warsaw

📅 2005 – 2011   📍 Warsaw, Poland