PIOTR MIGDAŁ, PHD

deep learning specialist, technical visionary & leader

@ pmigdal@gmail.com   📞 +48 537 459 068   📍 remote & Warsaw, Poland
🌐 p.migdal.pl   🐦 pmigdal   💼 piotrmigdal   🔗 stared

INTRO

I am looking for ambitious challenges in advanced data science.

I would happily consider industries such as medtech, biotech, and user-centric AI. Ideal roles include data science tech lead, head of AI, technical product manager, and CTO.

EXPERIENCE

co-founder & CTO
Quantum Flytrap

📅 2020 – 2022   📍 Singapore & Warsaw, Poland

- A startup making quantum easy for business by developing a quantum computing 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 a web-based quantum computing interface to Pasqal, a leading quantum hardware manufacturer – a paying customer.
- Created Virtual Lab, an interactive simulation of entangled photons, used at Stanford and Oxford universities.
- 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.
- Authored a publication "Level generation and style enhancement – deep learning for game development overview".
- Key tech: Python, PyTorch.

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machine and deep learning consulting
independent

📅 2015 – 2019   📍 US, Europe

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

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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 1.5M installations.

Data Science PL
Created the largest data science community in Poland – over 20k 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
University of Warsaw

📅 2005 – 2011   📍 Warsaw, Poland

BSc in mathematics
University of Warsaw

📅 2005 – 2009   📍 Warsaw, Poland