PIOTR MIGDAŁ, PHD

Deep Learning Specialist, Data Science Tech Lead

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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 angel and pre-seed rounds.
- Lead development a state-of-the art numerical engine, which performs quantum computation real-time in the browser, client-side with WASM.
- Delivered a web-based quantum computing interface to Pasqal, a leading quantum hardware manufacturer.
- Created Virtual Lab, a world-recognized UI for creating quantum information experiments with photons.
- Key tech: TypeScript, Vue, Rust, quantum computing.

AI researcher
ECC Games

📅 2020 – 2021   📍 Warsaw, Poland

- 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

- Selected clients: 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.

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

📅 2011 – 2014   📍 Castelldefels, Spain

- Advisors: Maciej Lewenstein, Javier Rodriguez-Laguna.
- Reviewers: Seth Lloyd (MIT), Karol Życzkowski (UJ).
- Key tech: Mathematica, LaTeX, Python.

LIFE PHILOSOPHY

"You live as long as you learn."

MOST PROUD OF

livelossplot
Developed a popular Python library for visualizing deep learning model training, with over 1.5M installations.

Data Science PL
Created Data Science PL, the largest data science community in Poland with over 20k members.

RSI & IPhO
Alumnus of the renowned MIT Research Science Institute and recipient of the bronze medal in the International Physics Olympiad.

Inspiration & impact
Over 15 of my projects and posts have been featured on the Hacker News front page.

Broad interests
My research publications span a wide range of disciplines from quantum physics to mathematical psychology, educational games, and data visualization.

LANGUAGES

Polish   English

EDUCATION

PhD in Quantum Optics
ICFO – The Institute of Photonic Sciences

📅 2011 – 2014

MSc in Physics
University of Warsaw

📅 2005 – 2011

BSc in Mathematics
University of Warsaw

📅 2005 – 2009