

Dr Piotr Gryko (PhD)

Polyglot Software Engineer with 12 years experience of software development. I'm comfortable working across an entire stack to develop working, reliable software.

Technologies: AI processing microservices (layoutllm, detectron, pytorch), Real time processing pipelines (rabbitmq, aio pika, python, docker), business logic (django, django ninja), frontend UIs (reactjs, konvas js), Devops (Ansible, Docker, Linux), Some embedded experience with C/C++

June 2023 - Present

Freelancer – *Senior Software Engineer*

AI-driven processing, categorization, and compliance verification of mortgage documents for the banking industry. Development of real time processing pipelines (rabbitmq, aio pika, python, docker), AI processing microservices (layoutllm, detectron), business logic (django, django ninja), frontend UIs (reactjs, konvas js)

- Building real time event driven document processing pipeline using pydantic, rabbitmq and aio-pika and async python
- Migration of infrastructure from pydantic 1 to pydantic 2
- Setting up docker based anti-virus microservices using clamav and microsoft defender
- Document labeling tool using react js and konva js for annotating AI labels
- Backend web development using django, writing rest api's using django ninja and pydantic
- Front end web development of a web based document management/editor tool, using reactjs, typescript and react konva
- RAG system using LLAMA2 and OpenSearch
- Adding Gitlab CI pipelines and resolving issues

Mar 2022 - June 2023

Qogita – *Senior Software Engineer*

Brought on board to help scale an MVP into a high-grossing product (\$20M/month turnover). Led backend and data engineering operations involving Django, Django REST framework, Celery, Pandas, Snowflake, MongoDB, and Python.

- Migration of backend payment system from Square to Wise without outages or failures
- Rapid implementation of business logic for sellers in django
- Fixing and improving ingestion of seller stockists (xlxs, csv etc) via a pandas microservice
- Fixing aws code pipeline and github ci pipeline issues
- Bi directional synchronization of data between snowflake and django/postgresql

Oct 2015 - Dec 2021

Unipart Digital – *R&D Software Engineer*

Generalist working on multidisciplinary projects for a large logistics company.

- Web development (Django, Flask)
- Front end web development (reactjs, redux + material ui, plotlyjs)
- Data analysis (python, numpy, pandas, jupyter notebooks)
- Devops & sysadmin work (docker, jenkins, digital ocean, postgres replication, ansible, elastic stack)
- Embedded development (C++, arduino, ESP8266, ESP32)
- Magento commerce development (php)
- Running small teams (3-4 devs)

Jun 2013 - Oct 2015

ION Geophysical - *R&D Software Engineer*

- R&D software development of signal processing tools for high performance computing systems (C++)
- Integration of python/numpy into a C++ processing system

Education

Oct 2007 - Apr 2012

Imperial College London - *PhD: Self Assembling Biomaterials, nanotechnology*

Characterisation and development of nano-materials for bio-sensing purposes

2003 - 2007

University College London - *MSci, Physics, 1st Class with Honors*

Volunteering Work

In my spare time, I run a tech mentoring meetup in Warsaw, code & coffee

<https://www.facebook.com/codecoffeewarsaw>

Opensource:

<https://github.com/pgryko>

<https://gitlab.com/pgryko>

Contact

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Recent talk on building and scaling an AI startup using async django

<https://pycon.lt/2024/talks/YCMZQ8>