Danylo Skorychenko,
Software Engineer

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Skills

- Python
- PyTorch
- C/C++
- JavaScript/TypeScript
- Shell (bash, sh)

- Numpy
- Pandas
- Hugging Face
- Node.js
- Tensorflow.js
- Scipy
- XGBoost
- React
- Qt6

- MongoDB
- MySQL
- Kafka
- DynamoDB
- RabbitMQ

- Linux (administration, kernels, drivers)
- AWS
- Docker
- Kubernetes

- Applied LLMs (LoRA, OpenAI api, Stable Diffusion)
- Applied mathematics (statistics, continuous, discrete)
- Data cleaning
- Scripting & Automation
- Build systems (cmake)

Languages

- English - fluent
- Ukrainian - fluent
- Russian - fluent
- Polish - intermediate

Experience

Nirx (nirx.net), medical — *Machine Learning Engineer*
2 years (2022-2024)

Pytorch, Numpy, Python, Scipy, C++, Qt6, Linux, Docker, AWS

Brain blood saturation measurement (fNIRS) device + software. Reading data from hardware optical sensors. Training and inference of GRUs and temporal convnets. Implementing visualisation in a native Qt6 app. Firmware development in C++ and tinkering with electronics. Model optimisation/pruning. Maintenance of custom Linux modules and firmware versions in Docker images.

Visual Data (visualdatamedia.com), entertainment — *Machine Learning Engineer*
1 year (2021-2022)

Pytorch, Numpy, Python, Serverless, Node, AWS

Asset library app. Developing a content recognition system using EfficientNet + transformer layers for video/image data and BERT for text. Training and integration of said components into existing backend cloud infrastructure based on Serverless framework, Node.js, DynamoDB and AWS lambda.

Alchemy (trustalchemy.com), fintech — *Data Engineer*
2 years (2019-2021)

Python, XGBoost, MongoDB, Kafka, Node, React

Data analysis-based automated digital lending app. Creating data pipelines and inference engines for lead generation and selection (Kafka, Express.js). Regression models, confidence scores and predictions (XGBoost). Data cleaning (Python, Numpy) and visualisation (Plotly, React). Presenting solutions and findings to stakeholders.

Edetek (edetek.com), medical — *Full Stack Engineer*
2 years (2017-2019)

Node, Python, MySQL, Docker, RabbitMQ, AWS, Angular

Specialized cloud storage app. Working on backend CRUD operations, permissions and data flow (Nest.js). File compression/decompression and medical dataset (.sas7bdat) parsing (Node.js + JDBC driver). Developing database migration and CI/CD infrastructure. UI maintenance (Angular).