

Hiring software engineer as easy as calling a taxi.

Mykhailo

Data Engineer, AI/ML Architect

SUMMARY

- Developer and Data Engineer with 10+ years of professional experience
- Knowledge of a wide range of programming languages, technologies and platforms, incl Python, JavaScript, C/C++, MATLAB;
- Extensive experience with designing and academic analysis of AI/ML algorithms, data analytics, mathematical optimization, modern statistical and stochastic models, robotics;
- Determining and analyzing business requirements, communicating with clients and architecting software product;
- Experience with cutting edge Semiconductor Engineering;
- Solid experience in engineering and design of robust and efficient software products;
- Track record of performing as a member of large-scale distributed engineering teams;
- Strong knowledge of OOP/OOA/OOD, database modeling;
- Proficient in presenting and writing reports and documentation;
- Fluent English;
- Upper-Intermediate German and Dutch.

SKILLS

Main Technical Skills	Python, MatLab, TensorFlow, PyTorch
Programming Languages	C++, JavaScript, Python
AI & Machine Learning	PyTorch, TensorFlow
Java Libraries and Tools	JSON
Python Libraries and Tools	PyTorch, TensorFlow
UI Frameworks, Libraries, and Browsers	XML
Data Analysis and Visualization Technologies	Apache Airflow, MapReduce
Databases & Management Systems / ORM	MongoDB, PostgreSQL, Snowflake, SQL

Cloud Platforms, Services & Computing	AWS, Azure, GCP
Azure Cloud Services	Azure
Scripting and Command Line Interfaces	Bash
Version Control	BitBucket, Github Actions, GitLab
Operating Systems	GNU, Linux, macOS, Windows
Mail / Network Protocols / Data transfer	HTTP, IP Stack, TCP
Third Party Tools / IDEs / SDK / Services	MatLab
SDK / API and Integrations	Web API
Other Technical Skills	EA, Erwin, Generative AI, LLM, NLP, Sparx, Wolfram Mathematica

EXPERIENCE

Senior NLP and LLM Engineer, Fraud Detection in Healthcare

02/2019 – present

Senior Design Engineer, ASML

02/2019 – present

Mathware and Software consultant, Sioux-LIME

06/2017 – 02/2019

Ph.D. Researcher, University of Technology, Delft, Netherlands

06/2012 – 10/2016

PROJECTS

Senior NLP and LLM Engineer, Fraud Detection in Healthcare

02/2019 – present



Description: The project accelerates the adoption of conversational AI through content, consulting, & community.

- Architecting and developing LLM to process medical records for fraud detection (text-to-text).
- We utilized LLM for diagnoses generation in order to compare them with the actual prescribed ones
- Developed GNN and Isolated Forest model for fraud detection
- NVIDIA Jetson Xavier. Flashing the OS, installing drivers, python environment, and NN for speech translation and communication

Senior Design Engineer and Software Quality Manager, ASML

02/2019 – present

- Leading a group for Machine Learning, Artificial Intelligence, and Data Science;
- Working in an Advanced Algorithms and Image Processing Group, my responsibilities include designing Machine Learning Algorithms as well as mathematical, statistical, and physical models for precision measurements in lithographic machines.
- Developing generative AI solutions, autoencoders, and transformers for image to-image-applications (Azure orchestration, TensorFlow/Jax, Python)

Senior Data Engineer

09/2021 – 01/2023

- Designing a product to ingest data via API requests (ETL) and store it in the s3 bucket, transform data, and store it into the snowflake tables (Python, SnowFlake, Airflow, AWS, SQL);
- Automation process of the software development process, scheduling ingestion jobs in AWS.

Consultant for Mathware and Software, AI and ML, Sioux LIME

05/2018 – 02/2019

- Project for KADASTER: Designed a highly efficient model and algorithm that includes AI/ML, complex data analytics, image processing, and delivery of a highly efficient software tool (Python, Tensorflow, Scikit-learn, SQL, PostgreSQL, MongoDB, Docker, Kubernetes);
- Designed algorithms for indoor navigation of a self-driving robot (Python, C++);
- Project for ASML: in close collaboration with a Software and Functional department, I worked on the migration of old code to up-to-date standards, including algorithm optimization, changing model interfaces, testing, and integration into a complex infrastructure (MATLAB).

Ph.D. Project, University of Technology, Delft, Netherlands

06/2012 – 10/2016

- Developed a mathematical model to describe the nonlinear and stochastic behavior of complex dynamical systems;



- Coded Brownian Dynamics and Monte Carlo algorithms for stochastic dynamics (MATLAB);
- Result validation with real data and presentation to industrial partners;
- Managed 3 bachelor projects and supervised problem-solving sessions for about 50 students.

EDUCATION

Ph.D., Theoretical Physics

06/2012 – 10/2016

University of Technology, Delft, Netherlands

Candidate of Science (Ukrainian Ph.D.), Theoretical Mechanics

09/2009 – 05/2012

National T. Shevchenko University, Ukraine

M.Sc., Mathematics and Mechanics (grade point average 5.0/5.0)

09/2007 – 08/2009

National T. Shevchenko University, Ukraine

- Major: Theoretical Mechanics
- Minor: Financial and Actuarial Mathematics

B.Sc., Mathematics, and Mechanics (grade 4.63/5.0)

09/2003 – 08/2007

National T. Shevchenko University, Ukraine

Art-School Diploma, Art Academy, UA

09/1998 – 07/2001

Regional Team Member of Physical and Mathematical Olympiads

09/1998 – 05/2003