

# Lukasz Sroka

ML ENGINEER · MLOPS · PYTHON RUST DEVELOPER

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## Summary

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Programming is like a second nature for me. I'm eager to learn, I love facing new challenges. My interests lie in machine learning, digital signal processing, linux, electronics, system programming, automation and more. With hands-on experience in designing and deploying machine learning solutions, I specialise in machine learning engineering, MLOps and distributed computing. I have a strong background in working with both hardware and cloud environments, leading initiatives to drive technological advancements and innovation. Tech-savvy and resourceful, I thrive on staying at the cutting edge of technology and continuously improving my skill set.

## Relevant Work Experience

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### Roche

Mar. 2024 - Today

#### MLOPS SPECIALIST / MACHINE LEARNING ENGINEER

- **Tech stack:** Docker, Linux, Gitlab CI/CD, Shell scripting, Python, Pytest, Pandas, AWS Lambda, AWS EC2, AWS S3, AWS Bedrock, AWS Cloudformation, OpenSearch, Slack Deep Learning, Large Language Models, Airflow, Kubeflow, Kubernetes, Slack API
- Developing website used analysing data with LLM model in a form of a chat
- Developing mlops platform tools used by the whole organisation
- Maintaining CI/CD pipelines in Gitlab
- Maintaining Airflow and Kubeflow deployment
- Maintaining data pipelines in kubeflow and airflow
- Profiling and optimising python code execution
- Creating slack chatbot that tries to answer questions in the context of our documentation
- Leading the development of automated model building and data preprocessing
- Maintaining and monitoring website running on production and test environments

### Amazon

Nov. 2021 - Aug. 2024

#### SOFTWARE DEVELOPMENT ENGINEER II

- **Tech stack:** Docker, Linux, CI/CD, Shell scripting, Cmake, C++ 11/14/17, Python, Pytest, Java, AWS Lambda, AWS EC2, AWS S3, AWS SageMaker, Deep Learning, PyTorch, Tensorflow, Tensorflow Lite, Android
- Developing neural network solutions for text to speech technology
- Supporting machine learning inference engines for different architectures
- Converting models between different inference engines to minimise time to market
- Optimising neural networks for custom devices
- Maintaining CI/CD infrastructure
- Supporting multi-device lab used for remote testing solutions
- Maintaining crucial legacy code base
- Leading the development of automated solutions for building machine learning models and data preprocessing
- Providing technical expertise for the Business Unit
- Participating in organisation's goal planning

### Nokia

Jul. 2020 - Nov. 2021

#### HARD REAL-TIME SOFTWARE ENGINEER

- **Tech stack:** Docker, Linux, GitLab CI/CD, Shell scripting, Cmake, Yocto, C++ 11/14/17, Python, Pytest, Matlab
- Developing 5G real time code with c++ and vectored instructions.
- Configuring linux and docker to work with different hardware compute accelerators.
- Developing matlab code with a reference to 3gpp specs.
- Testing using pytest on remote docker containers.

### Akamai Technologies

Jul. 2019 - Jun. 2020

#### C++ SOFTWARE ENGINEER

- **Tech stack:** Docker, Linux, Jenkins, Grafana, Shell scripting, Cmake, Buildroot, systemd, C++ 11/14/17, Python, Pytest, Networking L2 and L3
- Developing L2(MAC) and L3(IP) code for custom hardware.
- Maintaining custom linux distribution.
- Integration and stress testing using Jenkins automation.
- Creating custom features to monitor data flow in complex networks.

## Education

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### AGH University of Science and Technology in Cracow

#### B.S. IN INFORMATION AND COMMUNICATION TECHNOLOGIES

- **Thesis:** Self balancing robot on two coaxial wheels using remote neural network learning