Saidnassimov Darkhan

Software Design Engineer

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📍 Helsinki, Finland

Self-driven software engineer with 4 years of professional experience developing and delivering software-based solutions. Interested in automation and digitization of day-to-day applications using state-of-the-art machine learning methodologies.

Work Experience

Software Design Engineer, ABB, Helsinki, Finland — Nov 2022 - present

- Designing the architecture of the Energy Management solution back-end.
- Developed anomaly detection and forecasting application plugins for the Energy Management software and maintained its core functionality.
- Skills: C#.NET, RTDB (time-series database), REST API, Azure DevOps, batch scripting.

Thesis Worker, Metso:Outotec, Espoo, Finland — Jan 2022 - Aug 2022

- Developed an algorithm to recognize real-life equipment items using rendered images of the corresponding 3D models, achieving mAP of 69.57% using a custom industrial dataset.
- Research areas: deep learning, cross-domain object detection, transfer learning, continual learning.

Software Developer, Redrakon, Espoo, Finland — Oct 2021 - Jan 2022(out of business)

- Maintained a computer vision application in a startup environment.
- Skills: Python, RaspberryPi, OpenVINO, Intel NCS2, OpenCV

Jr. Software Engineer, Raute Oyj, Lahti, Finland — July 2018 - July 2021

- Standardized the industrial data collection system through a thesis project.
- Completed on and off-site installations of data collection PLC systems in 10+ plywood mills
- Developed and maintained a C# user interface for a sheet feeder, later used in 2+ customer mills.
- Skills: TIA, Step7, PLC, C#.NET, Nginx

Education

Aalto University, Espoo, Finland — Sep 2020 - July 2022

- M.Sc. in Automation and Electrical Engineering, Major in Control, Robotics and Autonomous Systems
- Thesis topic: Equipment identification through image recognition for Metso:Outotec (2022)

HAMK University of Applied Sciences, Valkeakoski, Finland — Sep 2015 - Feb 2019

- B.Eng. in Electrical and Automation Engineering
- Exchange studies at the University of Dundee, Scotland, UK (2018)
- Thesis topic: Standardization of MillSIGHTS data collection and reporting system for Raute Oyj (2019)

Skills: Expert, Intermediate, Novice

- **Programming:** C# (.NET), Python, Matlab
- **Databases:** RTDB, MS SQL, MySQL
- **DevOps & CI/CD:** Batch Scripting, GitHub Actions, Jira, Docker, Kubernetes, Terraform
- **Cloud Platforms:** Azure DevOps
- **PLC & IoT:** Step7, TIA, Raspberry Pi, Arduino, ROS
- **Machine Learning (Python):** PyTorch, OpenCV, Pandas, NumPy, scikit-learn, YOLO, Matplotlib
- **Other Skills:** Linux, Git, LaTeX, JSON, XML, HTML/CSS, REST API, Microsoft Office
- **Languages:** Kazakh (Native), Russian (Native), English (Fluent, IELTS 7.0), Finnish (B1, YKI-certified)
- **Other Certifications:** Valid Finnish Occupational Safety Card, Driving License (B)