Saidnassimov Darkhan

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Summary

Self-driven engineer with professional experience in 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.

- Development included C# to operate with the RTDB (time-series database), REST API to connect to the python-based API, and bash 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**

- Maintained a computer vision application in a startup environment.

- Deployed an OpenVINO model on a RaspberryPi to collect GDPR-compliant data on audience demographics using Python.

- The company went out of business in early January 2022.

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

- Standardized the industrial data collection system through a thesis project.

- Installed data collection systems in 10+ plywood mills and completed multiple installation visits to customer plants to fix PLC code.

- Completed XY-charger start-ups and Gocator laser calibrations in a team of 3.

- Developed and maintained a C# user interface for a sheet feeder, later used in 2+ customer mills.

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)

- Assisted 15+ first-year international and exchange students as a Peer Tutor

- Promoted Finnish education and Finland at Expo 2017 in Astana, Kazakhstan

- Led the official Instagram account of the university

Skills

- **Programming Languages:** Python, C#.NET, SQL, Matlab

- **Technologies:** Git, Linux, Azure, Nginx, Step7, TIA, ROS, HTML, CSS, PyTorch, scikit-learn, OpenCV, Detectron2, YOLO, Flask, Rest API, Docker, RaspberryPi, Intel NCS2, OpenVINO, Arduino, Latex, MS Office, time-series databases, bash scripting

- **Languages:** Kazakh (native), Russian (native), English (fluent, IELTS 7.0), Finnish (B1, YKI-certified)

- **Other certifications:** Valid Finnish occupational safety card, Driving license (B)