



Oleksii Kobylanskyi

Automation Tech. | DevOps | Web Dev.

PERSONAL INFO

Date of birth 13.12.1994

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Phone +49 15 223 559 457

Address 83022 Rosenheim, DE

Nationality Ukrainian

Languages

- English (B2 technical)
- German (B2 conversat.)
- Polish (conversat.)
- Ukrainian (native)
- Russian (native)

[LinkedIn](#) [Git](#) [Website](#)

SKILLS

Programming Languages

Python 3 (Pytest) Experienced

C# / .NET Core Intermediate

Javascript (Typescript) Intermediate

C / C++ Basic

DevOps

Azure Cloud Services Experienced

Git (Github, Azure Repos) Experienced

Linux (CLI, Bash, Zsh, SSH) Experienced

CI/CD (Azure DevOps) Intermediate

Containers (Docker) Intermediate

PERSONAL SUMMARY

I have a background in industrial automation technology with a focus on electric drives, industrial controllers, **OPC UA** and **Kafka** transport protocols, the use of **Python** in data science and automation scripting, **Edge** and **Cloud** infrastructure. I always tend to be proactive, so I seize every opportunity to learn new challenging topics. Currently, I am actively gaining expertise in **web development** to merge it with my **IoT** stack. During my internship, I have gathered essential experience in agile software development with Cloud technologies, as well as practiced my soft skills in collaboration with my teammates.

EXPERIENCE

2020 – 2021
6 MONTHS



Master Thesis

BMW GROUP, MUNICH

PERFORMANCE ENGINEERING OF EDGE GATEWAYS FOR SHOP FLOOR TO CLOUD CONNECTIVITY

The thesis describes the experimental testing of performance metrics of the local and Azure cloud environments in order to study and increase infrastructure throughput via OPC UA and Kafka protocols.

- setup of the factory on-premises and Cloud network connection
- preparation of the OPC UA Server with **Siemens TIA Portal**
- **Docker-Compose** setup for the Edge device tests
- **.NET Core** containerized application development
- **Python and Bash** script development for remote connection
- **OPC UA** and **Apache Kafka** connection setup
- statistical analysis with Python (**Pandas**, **Seaborn**) and Minitab

2020 – 2020
6 MONTHS

Internship at Digitization, Data Analytics department

BMW GROUP, MUNICH

- OPC UA information models development with **Siemens TIA** and **SiOME**, aimed to structure and standardize real factory production
- creation of the industrial robot simulation for **OPC UA Server** on a Cloud VM, used for production tests and demonstrations
- development of the **.NET Core** application for automated message streaming at **Azure Cloud Event Hub** for reliable infrastructure tests
- configurable **.NET Core** streaming application for **Kafka Broker**, helping colleagues to test infrastructure faster and more flexible
- **Python** desktop application for Excel file conversion into defined API JSON business objects and the integration as a **serverless** function application on Azure Platform, used in a BMW department project
- app **containerization**; Azure **DevOps** test pipeline development

2017 – 2017
6 MONTHS



Junior technical operator

NESTLÉ POLSKA S.A. ODDZIAŁ PURINA (NWW), WROCŁAW, POLAND

- integrated production team work according to factory standards
- continuous quality control of the produced product
- control and monitoring of the production parameters

2016 – 2016
6 MONTHS

SCADA interface developer

CONTROL SYSTEM AND AUTOMATION S.A., LVIV, UKRAINE

- creating **SCADA** interface for commercial water pump control system of the mid-size city
- integration **PLC** programming
- **TCP/IP** OPC Server development and maintenance

SKILLS (continued)

Web Entwicklung

HTML5, CSS3	<div><div></div><div></div><div></div><div></div><div></div></div>	Sehr gut
React.js (Redux)	<div><div></div><div></div><div></div><div></div><div></div></div>	Gut
Figma	<div><div></div><div></div><div></div><div></div><div></div></div>	Gut
Node.js (Express, REST APIs)	<div><div></div><div></div><div></div><div></div><div></div></div>	Gut
Datenbanken (SQL, MongoDB, Firebase)	<div><div></div><div></div><div></div><div></div><div></div></div>	Gut

Kommunikationsprotokolle

Apache Kafka	<div><div></div><div></div><div></div><div></div><div></div></div>	Sehr gut
OPC UA	<div><div></div><div></div><div></div><div></div><div></div></div>	Sehr gut
MQTT	<div><div></div><div></div><div></div><div></div><div></div></div>	Gut

Extras

Agile (JIRA, Confluence)	<div><div></div><div></div><div></div><div></div><div></div></div>	Sehr gut
Neural Networks (CNN, RNN, GAN, Tensorflow)	<div><div></div><div></div><div></div><div></div><div></div></div>	Gut
CAD (Fusion 360)	<div><div></div><div></div><div></div><div></div><div></div></div>	Gut
Siemens TIA Portal (inkl. SIOME)	<div><div></div><div></div><div></div><div></div><div></div></div>	Gut

CERTIFICATES

 

• Deep Learning Specialization

5 Courses | APR 2020

• DeepLearning.AI Tensorflow

Developer

4 Courses | MAY 2020



• Elegant Automation Frameworks with Python and Pytest

Brandon Blair | MAY 2022

• Node with React: Fullstack Web Development

Stephen Grider | MAY 2021

• Certified Six Sigma Green Belt Training

Sandeep Kumar | FEB 2022

EDUCATION

2018 – 2022
3.5 YEARS

Engineering Sciences (Automation Technology), M.Eng.

ROSENHEIM TECHNICAL UNIVERSITY OF APPLIED SCIENCES

- Master's Thesis: 1.1 (Excellent) & Master's Project: 1.3 (Excellent)
- GPA 2.3 Good (90 ECTS)

2016 – 2017
2 YEARS

Electromechanical Automation Systems and Electric Drive, M.Eng.

LVIV POLYTECHNIC NATIONAL UNIVERSITY (LPNU)

- Master's Thesis: 94/100 (Excellent)
- GPA 92.63/100 (90 ECTS)

2012 – 2016
4 YEARS

Electromechanics, B.Sc.

LVIV POLYTECHNIC NATIONAL UNIVERSITY (LPNU)

- Bachelor's Thesis: 94/100 (Excellent)
- GPA 97.13/100 (249 ECTS)

PROJECTS

RESPONSIVE PERSONAL WEBSITE **SELFHOSTED AND ON CLOUDFLARE | 2022**

Creation of the personal responsive website (optimized layout for mobile devices and computers), using pure HTML5, CSS3, JavaScript with BEM methodology. Initially hosted on a Raspberry Pi 4 as a container. Afterward, moved to Cloudflare Pages service for an easy CI/CD GitHub integration.

- hosted on Cloudflare Pages
- changes in the main branch of the project trigger the website update

REACT SURVEY APPLICATION **2021**

Full Stack MERN (MongoDB/Express/React/Node.js) application helps to send hundreds of automated emails to collect user feedback and organize targeted surveys.

- **MongoDB** database for the personal storage of the customer
- test payment integration with **Stripe**
- Google **OAuth 2.0** integration
- **Sendgrid** API

PUBLICATIONS

Orest Lozynskyy, Yaroslav Paranchuk, **Oleksii Kobylanskyi**. "Simulink Model of Electric Modes in Electric Arc Furnace". In: 2017 IEEE International Young Scientists Forum on Applied Physics and Engineering YSF-2017, p.54-57.

ENGAGEMENT AND ACTIVITIES

2017

1st place in 75-th Student Scientific Conference of LPNU

LVIV POLYTECHNIC NATIONAL UNIVERSITY (LPNU), UKRAINE

2017

Obtaining Presidential scholarship (best semester grade)

LVIV POLYTECHNIC NATIONAL UNIVERSITY (LPNU), UKRAINE

2016

Support of university representation during the annual student fair of science and intelligence "Naukovi Festyny"

LVIV, UKRAINE

2015

University department representative in the national students' Olympiad in the field of control systems

KREMENCHUK, UKRAINE

HOBBIES **Football, DIY-Electronics, Camping**