Wojciech Orzeł

Junior Developer

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Portfolio: http://185-237-97-67.cloud-xip.com/

Currently, I am a programmer at Transmission Dynamics Poland, and I work on the flagship product Global Data Network as a FullStack programmer. Additionally, I am studying computer science at AGH in Krakow. I use TypeScript as my main language, but I also know Python. During my studies, I expand my skills in machine learning, in particular image generation using GAN networks.

My main advantages are an open mind, quick learning, ambition, an engineering approach to problem solving, and the desire to acquire new skills.

Experience

Work:

07/2023 – present

Software Developer

Transmission Dynamics Poland sp. z o. o., *Kraków*

- Creating MySQL database structures depends on the current project requirements.
- Creating a REST API using Express.js, downloading data from databases, and transmitting it in the appropriate form depends on the requirements on the forwarded side.
- Creating new components on the front-end using Angular. Displaying analytical data on charts (Plotly, Highcharts), displaying data on maps (Google Maps), such as locations and areas, as well as creating interactive maps.

07/2023 – 10/2023

Programmer - Intern

SoftSystem Sp. z o.o., *Rzeszów*

- During the internship program, my main task was training for creating web apps with Python FastAPI, Vue3 JS, PostgreSQL, and Docker.
- My secondary assignment was to try to develop a solution that would predict the urgency of support tickets. For this purpose, I use Python with the scikit-learn framework and Jupyter Notebook to do natural language processing (NLP).

06/2022 – 09/2022

Junior developer - Application tester

MV Center Systemy Wizyjne, *Balice*

- Development of vision control application software in Adaptive Vision Studio and Datalogic IMPACT environments
- Designing and creating test stands to check the possibility of performing the detailed checks desired by the client.

Projects:

- **GANs for generation and compression of thermography data - engineering thesis ([more](#))**

  Keywords: Machine Learning, Python, PyTorch, numpy, pandas, matplotlib, Matlab, image generation, data extraction

- ***Winding Machine Control Panel (more)***

  Keywords: HMI, Python, Raspberry Pi, pigpio, PyQt5, SQLite, multi-threaded programming, real-time operations

- ***Portfolio Website (more)***

  Keywords: Full-Stack Web App, Python, FastAPI, OAuth2, SQLAlchemy, Pydantic, PostgreSQL, Vue3, vue-router, Pinia, Vite, TypeScript, HTML, Tailwind CSS, docker, docker-compose

Education

10/2023 – 07/2025 (planned for)	**Computer Science in Engineering**, *studies towards Master*
	AGH University of Krakow, Krakow
10/2019 – 01/2023	**Mechatronic Engineering**, *Bachelor of Engineering*
	AGH University of Krakow, Krakow
09/2015 – 05/2019	**IT Specialist**
	Zespół Szkół Elektryczno-Mechanicznych im. gen. Józefa Kustronia, Nowy Sącz

Courses

03/2023	**Program STARTER „Zbuduj swój start-up" – INNOAGH**
	• I was taking part in this course because me, my brother, and my father designed and created a machine to cut off apple trees for cyclic or permanent orchard removal. We want to try to sell our machine in the future to other farmers.
05/2023	**IT Basics Course from GlobalLogic Education**
	• Course, which was focused on different career paths and self-development in the IT market.
08/2023	**Vue – The Complete Guide (incl. Router & Composition API) Maximilian Schwarzmuller**
09/2023	**SQL and PostgreSQL: The Complete Developer's Guide – Stephen Grider**

Skills

Technical:

Web Technologies:
- Python: FastAPI, Djnago,
- JS/TS: Vue3, Vite, Next.js, Angular, Express.js, NestJS
- DB: PostgreSQL, MySQL, SQLite
- HTML/CSS
- Docker

Machine Learning:
- Python
- scikit-learn,
- pytorch,
- NumPy, Pandas,
- Matplotlib,
- Jupyter Notebook,
- MATLAB

Additional:
- git,
- C/C++,
- PyQt5,
- JIRA
- GitHub

Personal:

- Drive License
- English (B2),
- Good communication skills
- Quick adaptation
- Dealing with tense and stressful situations

Hobby/Interest

In addition to programming, I am interested in mechanics and manufacturing techniques. I use 3D construction programs such as Inventor, Fusion360, and SolidWorks. I am an amateur TIG welder. Thanks to this, I was able to make some of my projects myself, e.g., a welding trolley, a universal workbench, and a cutter for small trees.

In addition, I go to the mountains, swim, ride a bike, and ski. I play the trumpet, and I graduated with honors from the first degree of music school.