

Yaraslau Blonski

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Summary

Opened to learning new things in different domains: IoT, Web development, FinTech and etc. Skillful with backend development, DevOps and data processing.

During my work in Innowise my biggest achievements are:

- Participated in pre-sales processes for estimating and building outsource projects.
- Lead a team of 4 software engineers and successfully delivered product to the customers with keeping a tight discussion on business requirements.
- Mentored a group of interns inside the company. This included preparing test projects, code-review and level checks.

Domains

IoT, Adtech, Big Data, Web Development, Agriculture

Projects

Innowise | Minsk, Belarus

Software Engineer | 05/2023 - Present

Smart Gateway

We've built a software for the gateway (modberry PI device) to connect to different meters and systems (heating, water, electricity) and collect any kind of data from them.

- Design new protocol-oriented architecture;
- Splitting monolith to protocol services and transition them to gRPC;
- Implementing mechanism for communication with OPC UA servers;
- Writing CI/CD on Gitlab;
- Implementing simulation of different devices to test protocols implementation;
- Building POC for protocols integrations with Node-red;
- Building packages for internal reuse on Python and Golang.

Tech stack: *Python, Golang, gRPC, protobuf, pydantic, Mbus, Modbus, OPC UA, Azure (IoT Hub, IoT Edge), Nodered, Docker, Docker compose, GCP(Artifact Registry), Gitlab, Gitlab Pipelines, Terraform, MQTT.*

Innowise | Minsk, Belarus

Software Engineer | 06/2023 - 05/2024

SYSTEM FOR PRODUCE QUALITY CONTROL (Team Lead, Software Engineer)

With the help of machine learning models we define different produce defects and its firmness together with overall grade. Solution includes both hardware and software components that are designed specifically for each customer and produce.

Responsibilities

- Managing the team;
- Designing architecture of new services;
- Designing and implementing service for cameras and processing frames;
- Designing and implementing service for communication with the controller (Python service + controller firmware on C++);
- Setup logging for the system using Grafana and Loki (Promtail);
- Working deployment (CI/CD, Ansible);
- Mentoring and onboarding newcomers;
- Code review;
- Conduct interviews for candidates.

Tech stack: *Python, C++(Arduino), FastAPI, Django, DRF, Pydantic, Hydra, Numpy/Pandas, TinyDB, NanoMQ, OpenCV, Redis, PostgreSQL, Streamlit, Controllino, ZeroMQ, MQTT, Ansible, Grafana, Loki, Promtail, docker, docker compose.*

Innowise | Minsk, Belarus

Software Engineer | 08/2022 - 05/2023

NO-CODE AI BUILDER

Platform that is designed to build powerful AI solutions that can make a value from data. It is a no-code solution to build adaptive AI models based on user data and then utilize them for data analysis and processing.

- Assist in designing microservices and databases;
- Setup billing with Stripe webhooks;
- Rewrite billing strategy to subscription-based together with refunding and cashback mechanism in Stripe;
- Design metrics collection system on Cloud Functions and Snowflake;
- Configure and connect different data sources that users can use (Cloud SQL MSSQL, Standalone MS SQL, Snowflake, BigQuery, etc);
- Build architecture on integration with HubSpot Contacts service;
- Build mechanism for deploying ML model to web servers on-flight using GCP GKE;
- Provide on-fly updates of images under the Cloud Run services using Pub/Sub, Cloud Functions and Secret Manager;
- Build service for interaction with OpenAI models and implement chat using web-sockets to communicate with them;
- Creating and maintaining Terraform configuration files to provision and manage various infrastructure resources such as virtual machines, databases, load balancers, and networking components.

Tech stack: *Python, FastAPI, GCP(Cloud SQL, Cloud Run, IAM, Cloud Scheduler, Pub/Sub, Cloud Functions, Cloud Storage, Secret Manager, Artefact Registry), SQLAlchemy, Pydantic, PostgreSQL, Snowflake, Alembic, MongoDB, Stripe, Postmark, MixPanel, HubSpot Contacts, Prefect/Orion, OpenAI, RabbitMQ, Vault, Ory, ApScheduler, Functions Framework, LaunchDarkly.*

Innowise | Minsk, Belarus

Software Engineer | 03/2021 - 08/2022

ADS AI PLATFORM

Platform for selling ads to clients. Clients have their Google AdWords account where a lot of ads companies work. The key is to analyze their ads and get better advertisements for the end-client.

- Back-end and ML(NLP) development;
- Process big amount of data using Kinesis and Lambda;
- Provide integration with ML models;
- Build storage for static data on S3;
- Implement microservice on FastAPI;
- Writing complex SQL queries;
- Writing SQL stored procedures and triggers;
- Increase test coverage.

Tech stack: *Python, Flask, boto3, RabbitMQ, Alembic, SQLAlchemy, Marshmallow, PostgreSQL, MongoDB, PyTorch, TensorFlow, Keras, Scikit, Numpy, Pandas, Sentence-transformers, Docker, AWS(Lambda, S3, EC2, ECR, ECS, CloudFormation, DynamoDB, API Gateway, SageMaker, Glue, RDS, SES, SNS, etc), Github, Github actions.*

Education

Minsk College of Business | Minsk, Belarus

Computer Science | 06/2023

- Received the 6th degree as a computer operator by passing an exam with score 10 out of 10;
- Lead the college volleyball team;
- Graduated with the average mark 9.5 out of 10;
- Participated in the social life of the college.

Languages

English (B2), Russian (Native-speaker), German (A1 - currently learning)