IGOR DUBOVIK

PYTHON SOFTWARE ENGINEER + REACT/ TYPESCRIPT

Python Software Engineer with React/TypeScript knowledge and information security background.
Open Source contributor.
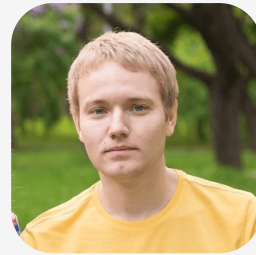
Github: wardal
Linkedin: Igor Dubovik

Key Skills Technologies

Python/Django	gRPC/Protobuf	Ubuntu/Manjaro/Kali Linux
FastAPI/FastStream	PostgreSQL/MongoDB	Gunicorn/uWSGI
DRF/Tastypie	Redis/Memcached	nginx/Traefik/Varnish
Django ninja	Apache Pulsar/Kafka	Kesque and DataStax
React/Redux/TypeScript	ZeroMQ/RabbitMQ	Docker/Vagrant
pytest/unittest/Robot Framework	AWS SQS/SNS	AWS RDS, S3
Celery/RQ	Apache Airflow	GitLab CI/CD
Pydantic	Kibana/ElasticSearch	GitHub Actions

Experience

Milo Solutions
Senior Software Engineer   07.2017-current time

Software house where I'm primarily working in an outstaffing model.

Here is some projects I worked on:

Direct
Team Lead/Senior Software Engineer   07.2023-03.2024

Direct is a messenger designed for people who require security and confidentiality.

Project stack: Qt/C++ | Python/Django | Node.js | React+Redux+Mui

Developed the architecture for the web component of the project;

Established inter-service communication with the Software server using gRPC/protobuf and Pydantic;

Designed the database structure and entity relationships in coordination with Qt developers;

Implemented polymorphism for some database models types;

Implemented cryptocurrency transactions tracking via the Bitcoin blockchain using Bitcoin daemon, RPC and ZeroMQ (0MQ).

Created and implemented the billing system, management panel, and subscription system;

Integrated payment gateways such as PayPal and Coingate for cryptocurrency payments;

Developed a REST API for a React/Redux application;

Integrated Google Pay to facilitate mobile purchases;

GoExpedi
Team Lead/Senior Python Engineer   11.2017-06.2023

GoExpedi is the industrial supply chain with the innovative end-to-end digital procurement, delivery,

and data analytics solutions.

Development of company products and services using Python/Django and FastAPI frameworks;

Synchronous REST API services built with Django + Django Rest Framework or Tastypie;

Asynchronous REST API services built with FastAPI/FastStream and Django + Django ninja;

Search engine integration with Lucidworks Fusion and FastAPI bridge;

Message communication using Apache Pulsar and RabbitMQ;

Utilization of SQL databases: PostgreSQL/MariaDB and NoSQL databases: MongoDB/Redis;

Oracle Punchout sessions integration;

Oracle NetSuite and Odoo integrations;

Avalara integration for handling tax calculations and compliance;

Integrated analytics data with Looker, followed by Domo;

webMethods Integration Server for B2B integrations;

Asynchronous task management with Celery and RQ;

Amazon AWS services like RDS, SNS/SQS and S3;

Logging with Python core logger integrated with the Datadog, followed by Kibana/Elasticsearch;

Debugging with DDT and Silk, optimizing SQL queries through ORM;

Testing with pytest/unittest, extensive use of mocking;

Virtualization using Docker, Docker Compose and Vagrant;

CI/CD pipelines with GitLab CI/CD and GitHub Actions;

Template engines: primarily Jinja2, with some use of Django templates;

Static files managed with LESS/SCSS via Gulp and Bower;

Reactive UI development using React, Redux toolkit and React Hook Form;

Server configuration with nginx/uWSGI/Gunicorn, Varnish and load balancing;

Nulled group   01.2016-06.2017
Information security specialist, black/white box penetration tester

Conducted vulnerability assessments of web services and third-party software using both black-box and white-box testing methods; prepared detailed reports;

Analysis of code for RESTful API services written in Python for security and potential vulnerabilities.;

Performed manual and automated security testing using tools such as Kali Linux, BurpSuite, OWASP ZAP, Acunetix, Nikto, jSky, Havij, SQLMap, and Nmap;

Tested servers for misconfigurations;

Removed viruses, hidden miners, redirects, mobile-only redirects, and malicious frames from infected websites;

Analyzed network traffic using Wireshark;

Investigated carding techniques and methods of data theft, including phishing, skimming, and data decryption;

Identified and shut down phishing domains, email spam scripts, and similar malicious activities.

ArcelorMittal Ukraine   03.2015-12.2015
Engineering Project Manager

ArcelorMittal is a multinational steel manufacturing corporation headquartered in Avenue de la Liberté, Luxembourg.

Developed "Advisor for Blooming Operators" using Python and ASP.Net MVC;

Software development for RTOS QNX;

Developed technological process models using Matlab/Simulink;

Designed a microcontroller for remote data transmission from various industrial equipment;

Managed teams and project tasks;

Conducted patent research.

HeidelbergCement Ukraine
PLC developer, System Administrator   11.2014-03.2015

HeidelbergCement is a German multinational building materials company headquartered in Heidelberg, Germany.

Server hardware maintenance (IBM/Dell servers);

Administration of Windows Servers that controlled the cement production process.;

Linux OpenSUSE server administration used by spectrograph monitoring;

ESXi virtualization configuration;

Programming Siemens and Schneider Electric controllers;

Maintenance of Schenck Process weighbridges;

Management of FLSmidth ECS systems.

Language Skills	English	Ukrainian	Russian
	Upper-Intermediate	Native language	Fluent

Education

Postgraduate Student🎓   11.2011-11.2014
Faculty of Information Technology
Control Systems and Automation
Kryvyi Rih National University

Master's Degree   09.2010-06.2011
Diploma with distinction📜
Faculty of Information Technology
Control Systems and Automation
Kryvyi Rih Technical University

Bachelor's Degree   09.2006-06.2010
Diploma with distinction📜
Faculty of Information Technology
Control Systems and Automation
Kryvyi Rih Technical University

Latest Trainings Conferences

Software Architecture fwdays'24 Certificate;
Highload fwdays'24;
Mail.ru Group course "Web application penetration testing" 🔐Certificate;

Hobbies Free Time

Family 👪 music🎵, travelling 🗺️, wakeboarding 🏄, football ⚽, PS4/5 🎮 personal projects👨‍💻.