

VLADYSLAV FROLOV

Software Engineer

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🐙 github.com/frol

BACKGROUND

I learned the foundation of algorithms and data structures at school where I competed in a number of programming contests using Pascal. The algorithmic foundation helped me to solve complex problems optimally. Later, I taught myself C, C++, Python, JS, Rust, and other programming languages and technologies. Throughout my career, I have been into desktop, web, kernel, distributed systems, and machine learning developments, and I am eager to learn more and I love helping others to learn more.

EDUCATION

- September 2012 – **Master's Degree**, *Kharkiv National University of Radio Electronics, First Class Honours.*
June 2013 Security of Information and Communication Systems
“RESEARCH OF SYNTHESIS METHODS OF NONLINEAR S-BOXES FOR BLOCK SYMMETRIC CIPHERS”
- September 2008 – **Bachelor's Degree**, *Kharkiv National University of Radio Electronics, First Class Honours.*
June 2012 Security of Information and Communication Systems
“SECURITY ANALYSIS OF WEP PROTOCOL IN 802.11 WLAN COMPUTER NETWORKS”

EXPERIENCE

Salford Systems

- June 2012 – **Software Engineer (remote)**, *Data Mining and Predictive Analytics Software company.*
March 2018 Designed, led, and developed distributed data mining projects which handle big data loads. The team I led was in charge of solving all the technical problems (development and operations).
- Backend: PYTHON, CYTHON, PYTHON C-EXTENSIONS, C, FLASK, DJANGO, DASK, PYSPARK, CELERY, HADOOP HDFS, POSTGRESQL, RABBITMQ, REDIS, SEAWEEDFS
 - Frontend: JAVASCRIPT (ES6), REACTJS, REDUX
 - Operations: AWS, LINUX, DOCKER, HADOOP, FREEIPA, RANCHER, GITLAB, GITLAB CI, NGINX, JENKINS, PYINVOKE, ANACONDA

Open-source (github.com/frol)

- September 2009 – **Contributor**, *open-source software.*
today I became a fan of open-source software the moment I consciously used it for the first time back in 2009, developing a small project in Qt. At that time, I had already been using Linux for over two years, but most of my projects were written from scratch, meaning that I didn't use any thirdparty libraries.

It was September 29, 2009, when the first project I published to the open-source was born. Since then I have open-sourced over 30 projects and contributed to over 100, including Linux kernel, Android for x86, Docker, and Django.

I am an active maintainer of some packages on [Docker Hub](https://hub.docker.com/) and [conda-forge](https://conda-forge.org/) (Anaconda Python).

My recent contributions are around Rust packages (cgroups integration, flatbuffers helpers, API ergonomics).

– GIT, LINUX, DOCKER, HEROKU, RUST, PYTHON, JS, TRAVIS CI, CIRCLECI

Q-BIT (qbit.org.ua)

March 2015 – **Education Evangelist**, *local science community*.

today I used to be a student at Q-BIT, and now I am helping new students (giving lectures and guiding). Q-BIT has its own online-platform that we use to teach programming and to conduct programming contests. I have designed, developed, and deployed the backend in Rust and Python that does automatic compilation and execution of student solutions in over 15 different programming languages.

– LINUX, DOCKER, NGINX, RUST, PYTHON, C, BASH, JS, PHP, C++, PASCAL

Escalibro (escalibro.com)

October 2010 – **Co-creator**, *pet project*.

today This is a Web-service for writers and readers, that provides simple and convenient book writing and reading. I was involved in the every bit of the project: servers tuning, UI design, frontend and backend development.

– LINUX, PYTHON, DJANGO, CELERY, NGINX, MYSQL, RABBITMQ, HTML/CSS/JS

Fahrenheit 451

April 2011 – **Software Engineer**, *Website building company*.

May 2012 Developed a food delivery web-service for restaurant chains “Mafia” (mafia.ua) and “Yakitoria” (yaki.kh.ua)

– PYTHON, DJANGO, MYSQL, HTML/CSS/JS

EwaDev

October 2009 – **Software Engineer**, *Website building company*.

December 2011 Developed a variety of websites and web-services

– LINUX, PYTHON, DJANGO, MYSQL, HTML/CSS/JS

Classes

2005 – 2009 **Student**.

I was taught algorithms and data structures in Pascal, and so I competed in a number of individual (IOI and alike) and team competitions. Later, I learned about desktop development and network design, which allowed me to implement a Direct Connect (DC) server from scratch and host a DC hub on a local city network.

– PASCAL, DELPHI, C++, QT, LINUX

PROFESSIONAL SKILLS (*my preferences are marked in bold*)

Programming Languages **RUST** ◦ **PYTHON** ◦ **CYTHON** ◦ **JAVASCRIPT (ES6+)** ◦ BASH ◦ C++ ◦ C ◦ HTML ◦ SQL ◦ L^AT_EX ◦ PHP ◦ DELPHI/PASCAL

Frameworks and Tools **FLASK** ◦ **REACTJS** ◦ **VIM** ◦ **DASK** ◦ DJANGO ◦ CELERY ◦ PYSPARK ◦ APACHE SPARK ◦ HADOOP YARN ◦ JQUERY ◦ **NGINX** ◦ APACHE ◦ ANACONDA ◦ QT ◦ **DOCKER** ◦ **GIT** ◦ JENKINS ◦ **OPENVPN** ◦ STRONGSWAN ◦ ...

Databases **POSTGRES** ◦ **SQL** ◦ **MYSQL** ◦ **SQLITE** ◦ **RABBITMQ** ◦ **REDIS** ◦ MONGODB ◦ MEMCACHE

OS **GNU/LINUX** (DEBIAN, UBUNTU, CENTOS, **ARCHLINUX**) ◦ MS WINDOWS ◦ MACOS

LANGUAGES

Russian, Ukrainian Native

English Fluent