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 – June 2013
Master's Degree, *Kharkiv National University of Radio Electronics*, *First Class Honours*.
Security of Information and Communication Systems
"RESEARCH OF SYNTHESIS METHODS OF NONLINEAR S-BOXES FOR BLOCK SYMMETRIC CIPHERS"

September 2008 – June 2012
Bachelor's Degree, *Kharkiv National University of Radio Electronics*, *First Class Honours*.
Security of Information and Communication Systems
"SECURITY ANALYSIS OF WEP PROTOCOL IN 802.11 WLAN COMPUTER NETWORKS"

EXPERIENCE

Salford Systems

June 2012 – March 2018
Software Engineer, *Data Mining and Predictive Analytics Software company*.

- Designed, led, and developed distributed data mining (BigData) projects
  – PYTHON, CYTHON, DASK, YARN HADOOP, PYSPARK, PYTHON C-EXTENSIONS, C, PYINVOKE, ANACONDA
- Designed, led, and developed data mining SaaS with a distributed backend in the cloud
  – API Server: PYTHON, FLASK, POSTGRESQL, SEAWEEDFS
  – Frontend: JAVASCRIPT (ES6), REACTJS, REDUX
  – Backend: CYTHON, DASK, RABBITMQ, HADOOP HDFS
  – Other: DOCKER, DJANGO, REDIS, AWS
- Developed an automated distributed testing system for Salford Systems' software suite
  – PYTHON, DJANGO, CELERY, POSTGRESQL, REDIS
- Developed a text mining tool using Natural Language Toolkit
  – PYTHON, NLTK
- Set up Salford Systems IT infrastructures
  – LINUX, DOCKER, HADOOP, FREEIPA, RANCHER, GITLAB, GITLAB CI, MATTERMOST, CFENGINE, NGINX, JENKINS, REDMINE, PYINVOKE

Open-source (github.com/frol)

September 2009 – today
Contributor, *open-source software*.

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 and conda-forge (Anaconda Python).

Q-BIT (qbit.org.ua)

March 2015 – today

Education Evangelist, *local science community.*

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, and I have designed and developed the backend that does testing (compilation and execution) of student solutions in over 15 different programming languages.

– Linux, Docker, NGINX, Python, Rust, C, Bash, JS, PHP, C++, Pascal

Escalibro (escalibro.com)

October 2010 – today

Co-creator, *pet project.*

This is a Web-service for writers and readers, that provides simple and convinient 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 – May 2012

Software Engineer, *Website building company.*

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 – December 2011

Software Engineer, *Website building company.*

Developed a variety of websites and web-services

– Linux, Python, Django, MySQL, HTML/CSS/JS

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

Programming Languages
Rust ∘ **Python** ∘ **Cython** ∘ **JavaScript (ES6+)** ∘ Bash ∘ C++ ∘ C ∘ HTML ∘ SQL ∘ LaTeX ∘ 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
PostgreSQL ∘ MySQL ∘ **SQLite** ∘ **RabbitMQ** ∘ **Redis** ∘ MongoDB ∘ Memcache

OS
GNU/Linux (Debian, Ubuntu, CentOS, **ArchLinux**) ∘ MS Windows ∘ macOS

LANGUAGES

Russian, Ukrainian Native

English Fluent