Roman Voropaev, Software Developer

Russia, Saint-Petersburg

PROFESSIONAL SUMMARY

- Senior Software Engineer with 7+ years experience in enterprises and startups and strong computer science background. Participated in different areas from telecom & banking to quantitative finance and poker AI.

- I'm devoted to high quality code and respect of Zen of Python/Go, so I love simple, robust and scientifically repeatable solutions. I like exploration and experimenting with technology limits.

- I understand business needs and know that sometimes technical problems can be solved without writing any lines of code…

TECHNICAL SUMMARY

Languages:	Python3, Golang, Swift, JavaScript
DBMS:	Postgres, Sqlite, Redis, Mongo
Backend:	Django/DRF, Flask, FastAPI, Golang
Frontend:	React, iOS native
Methodologies:	Unit and Functional Testing, CI/CD, Design Patterns, Agile
Version Control:	Git, Mercurial
Platforms:	Unix: Linux (Debian|Arch), OS X

KEY TECHNICAL SKILLS

SKILL	LEVEL
Python, Django	**advanced**

- From classic monoliths with Django templates to modern rest services with Django Rest Framework and Flask
- Custom management commands
- Websockets via Django Channels
- WSGI/ASGI servers (Gunicorn, uWSGI, Uvicorn, Werkzeug)
- Complex Django admin site customizations
- Raw SQL queries and complex model filters
- Token authentication and authorization with CORS
- Unit Testing (Django Tests, pytest, freezegun)
- Postman API collections with tests
- Deployment via Fabric, Ansible
- Google apis (FCM, Maps) integration, SMS gateways
- Card payments integration via bank/gateway APIs
- Documentation generators (Swagger)

JavaScript   **medium**

- ES6 and JSX
- React with 3d-party components
- AJAX and SPA using Fetch API
- Modular JS applications development using bundlers

Databases: **advanced**

- Postgres 11
- Database design with normalization
- Complex Django migration scripts
- Triggers and views development
- Using extension such as pg_trgm, earthdistance
- Array, Hstore and JSON data types usage
- DB administration and backup
- Non-production experience with Mongo

Cloud Services   **medium**

- Digital Ocean
- AWS EC2
- Heroku
- Google App Engine
- Azure

Development methodologies   **advanced**

- Agile
- Scrum
- Object-oriented programming in Pythonic way
- Unit testing
- Code reviews
- Continuous Delivery

Version control   **advanced**

- Git, Mercurial
- SVN

Artificial Intelligence   **medium**

- Neural Networks (including recurrent and convolutional)
- Data Processing: Numpy, Pandas, Matplotlib, Jupyter
- Frameworks: Keras, PyTorch
- Reinforcement Learning (self-playing agents and game theory)
- NLP algorithms

CERTIFICATIONS

- [Machine Learning (first course of Andrew Ng)](#)

- [Pattern-Oriented Software Architectures for Concurrent and Networked Software](#)

- [Functional Programming Principles](#)

- [Design of Computer Programs](#)

- [Artificial Intelligence for Robotics](#)

<div align="center">**PROFESSIONAL EXPERIENCE**</div>

Gearheart LLC, 2019-2020
Backend Developer
Projects:
- *Oxygen Bank (oxygenbank.com)*
  Oxygen is «the fresh new bank account for free thinkers, rebels and entrepreneurs. Awarded Best Digital Banking Account* in the US, we look after people who want to rise above»
  Technically just very big gateway for >10 other banking services (card processing, risk management, loans, international transfers, etc). Even though most of them duplicated, some services were constantly failing. Seems like finance industry is not so reliable as we think…
  Native apps were developed by other company, so there were some communication issues.

  <u>Personal results/ Responsibilities :</u>
  - DRF endpoints, integration of many 3d-party services to internet banking project
  - Intensive daily communication with QA specialist
  - Virtual cards and Apple pay integration (card tokenization) via Galileo card processing
  - Implementation of card limits system - daily, weekly, single-use cards
  - Acceleration of big Django tests suite from 5 min to 3 min
  - Addition of type annotations in large codebase
  - Deployment to production and staging
  - Massive updates of icons and images from designers

Pena LLC, 2018-2019
Lead Backend Developer
Projects:
- *Pena Mobile Application (penawash.com)*
  Pena is an Uber-like application for carwash services booking. Project consists of two parts:
  1. mobile application for car owners
  2. CRM/accounting system for carwash operators and owners
  User registers in application via phone (OTP code), enters his/her car information (because prices and durations of services depend on car body type). Next user is able to choose type of booking: manual on the concrete favorite carwash and with selected services, or «automatic» at the nearest carwash with predefined «standard package» of carwash services in case of hurry. There is quite complex carwash ranking logic that determines order of booking trials on different carwashes (each one have very limited time to accept incoming order). The novelty of this application is rigid responsibilities of carwashes based on money penalties and premiums for operators. So it should offer the same standardized carwash service level for the same prices in each major city in Russia.
  The second part is web application for order management and execution on the carwashes. After login, operators of carwashes are able to accept orders, change their execution time and manage their load in simple, intuitive UI, similar to Kanban tables.
  For the owners of carwashes accounting/statistics tools exist.

  <u>Personal results/ Responsibilities :</u>
  - Developed backend architecture incrementally from scratch
  - Gathered sophisticated and sometimes contradictory requirements during in-person scrum meetings with real business owner and other developers

- Integrated many 3d-party services, such as sms gateways, push notifications and payments
- Refactored application code numerous times to make it scalable and readable by other developers
- Established simple but effective development process with CI on BitBucket, allowing to fix bugs as quickly as possible
- Wrote most of documentation in the project wiki
- Transferred lead backend role to other developer

Grand Capital LTD, 2016-2017
Senior Software Developer
Projects:

- *Uptrader (uptrader.us)*

  Uptrader is a web application for simplification of working with MetaTrader4/5 and providing better UI to new forex customers. MT is currently the industry standard for running Forex brokerage. It is big, slow Windows-based(!) application with very non-standard binary APIs painful to use and implement. The goal of project was to abstract these technical difficulties from new Forex brokers all over the world, who just bought expensive MT license and wants return on their investments...

  Personal results/ Responsibilities :
  - Developed RESTful services and python bindings to binary APIs
  - Development of web trading terminal
  - Investigating incidents & complex bugs on the production servers of client brokers with logs and imagination
  - Integrated many 3d-party services, such as sms gateways, push notifications and payments
  - Refactored application code numerous times to make it scalable and readable by other developers
  - Established basic CI and dev-ops processes for new client brokers
  - Mentoring and code reviewing 2 junior developers, team-building

- *Main Company Site (grandcapital.net)*

  Grand Capital is Russia-based international Forex company. It has small but numerous offices in many countries (especially Asia and Africa). Main company site were constantly changing to offer numerous bonuses and promotions for new customers.

  Personal results/ Responsibilities :
  - Teached HTML coders and designers to work with git and change Django markup without fear
  - Investigating incidents & complex bugs on the production server with logs and imagination
  - Integrated many 3d-party services, such as sms gateways, push notifications and payments
  - Refactored application code numerous times to make it scalable and readable by other developers
  - Established basic CI and devops processes

Alfad LLC, 2015-2016
Lead Backend Developer
Projects:

- *Alfad (Alpha-Advertisement) Application (now closed)*
  Alfad was Social network (*vk.ru*) advertisement automation system. The idea was to fully automize advertisement publication in many market channels at the same time. That means creation of integrated ads exchange.

  Personal results/ Responsibilities :
    – Developed backend architecture incrementally from scratch in Java/Kotlin and Spring
    – Gathered requirements during in-person scrum meetings with real business owner and other developers
    – Integrating social network APIs

T-Systems GmbH, 2014-2015
Junior Web Developer
Projects:
- *T-Mobile customer cabinet (support.t-mobile.com)*
  T-Mobile is one of the largest mobile operators in Europe, especially Germany. Our team consisted of 50+ (developers, managers, testers, analytics), partially located in Saint-Petersburg office, partially in Frankfurt office. E-care is one small part of whole telecom support system, providing services such as cellphone tariff change via web portal.

  Personal results/ Responsibilities :
    – Learned to work in distributed team
    – Basic web development with J2EE (without changing architecture or serious business logic)
    – Partially adopted application pages for disabled/blind people (Web-accessibility)
    – Developing and running Selenium tests, investigating fails
    – Writing documentation

PERSONAL PROJECTS

- *Paranoid*
  P2P Encryption for VK chats
  https://github.com/roma-guru/paranoid
- *Ricksay*
  Cross-platform tool with funny quotes from Rick & Morty.
  https://github.com/roma-guru/ricksay
- *Flickpyper*
  Cross-platform tool to load fresh wallpapers from Flickr.
  https://github.com/roma-guru/flickpyper
- *Hardgain*
  Web application for tracking sport achievements and progress.
  Django backend & React frontend.
  https://github.com/roma-guru/hardgain
  https://github.com/roma-guru/hardgain-web
- *Pair Trading*
  Research on Pair Trading on Russian stocks & currencies market.
  https://github.com/roma-guru/PairTrading

- *Transaq Connector*
  Python bindings for Transaq trading API (used by Russian stock brokers).
  https://github.com/roma-guru/transaq_connector
- *Mauveton*
  Console online audio player for vk.ru (now they've closed this API).
  https://github.com/roma-guru/mauveton
- *Pokerstars Texas Holdem Bot*
  Fully functional poker adviser based on great research made by smart Canadians.

EDUCATION

Saint Petersburg State University
Master's Degree of Computational Physics