

Demian Volkov

Software Engineer



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About:

A passionate software engineer with 5+ years of experience in full-stack web development, data science, DevOps, desktop & mobile apps development, and competitive programming.

Tech Stack & Skills:

- **Backend:** Flask, Django & DRF, Pyramid, bottle, aiohttp; Node.js; Golang.
- **Frontend:** HTML5, CSS3, Less, SASS, BootStrap, Vanilla JS (ES2021), jQuery, Vue, React.
- **Data Science:** NumPy, Pandas; matplotlib, Plotly; NLTK, spaCy; OpenCV, scikit-learn, TensorFlow; requests & grequests, aiohttp; BeautifulSoup4, lxml, Scrapy.
- **DevOps:** bash, Golang, Tcl; Docker, Kubernetes, OpenVZ; Jenkins, Gerrit.
- **Cloud Services:** AWS.
- **Desktop:** Qt, WinAPI, wxPython; Tcl/Tk, tkinter; BeeWare, Kivy.
- **Mobile:** Java, Kotlin; Kivy, BeeWare.
- **Automated Testing:** unittest, pytest, doctest, nose; Jest; Selenium, puppeteer, pypeteer.
- **DBMS:** SQL (PostgreSQL, MySQL, SQLite3), NoSQL (Redis, MongoDB).
- **ORM:** SQLAlchemy, Django ORM.
- **Data Structures & Algorithms, Competitive Programming**
- **Asynchronous Programming**
- **Task Queue:** Celery
- **ElasticSearch**
- **Network Protocols:** HTTP(S), UDP, TCP/IP, WebSocket.
- **Data Serialization:** JSON, YAML, XML & XSD.
- **VCS:** Git, SVN, Mercurial.
- **Repo Hosting:** Github, BitBucket, GitLab.
- **PaaS:** Heroku, Pythonanywhere.
- **Atlassian Jira**
- **UML**

Projects:

- [10+ successful projects](#) on Freelancehunt, one of the most famous Ukrainian freelancing platforms.
- [pyreverso](#), an open-source Pythonic wrapper for [Reverso](#) REST API. At the time of writing this, the project has received 30+ stars on Github, and was downloaded 12k+ times. The project is in active development. *Tech Stack* includes Python, requests, BeautifulSoup, lxml, and unittests.
- [Code Club LMS](#), a modern learning management system built to provide my students at Code Club with enhanced educational opportunities. The website is currently in beta; examples of stable features include an IDE with sandboxing and real-time communication between students and the mentor. *Tech Stack* includes Python, Flask, SQLAlchemy, PostgreSQL; HTML, CSS, Vanilla JS; unittest, Selenium.
- [pyalt](#), an open-source, feature-rich, desktop client for the “[Alternative](#)” [online-school](#). The project is in active development. *Tech Stack* includes Python, requests, Jinja2, tkinter, and unittests.
- [Cosmopolite](#) (currently in development), an educational startup featuring innovative approaches to information memorization and keeping language learners motivated, such as real-time competitions between the users and AI-powered individual curriculum generation. *Tech Stack* includes Django, PostgreSQL, Redis; NumPy, Pandas; HTML5, CSS3, ES6, Babel; unittest, Selenium.

Operating Systems:

- **Linux Distributions:** Fedora, Ubuntu, Linux Mint, OpenSUSE, Puppy.
- **Microsoft Windows**
- **BSD:** FreeBSD, OpenBSD
- **macOS**

Community Service (Volunteering):

- Mentor at [Code Club](#), an international non-profit, that teaches programming to children and teenagers (2+ years).
- Moderator of a programming-related [Facebook group](#) with 2k+ members.
- [Active participant](#) at Stack Overflow.

Languages

- English (Full professional proficiency)
- Ukrainian (Native proficiency)
- Russian (Native proficiency)
- Czech (Elementary proficiency)