

Vsevolod Sipakov

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Back-end software developer with extensive experience in Unix/Linux and networking.

Education

Sept.1999 –
June 2005 Engineering Diploma, *Chita State University*.
Specialist's Degree in Computer Science

Work Experience

Nov. 2018 **Senior Back-end developer**, [MERA](https://www.mera.com), *Nizhny Novgorod*

– now

As part of a large distributed international team of highly skilled professionals working on innovative Point-of-Sale solution combining cloud-based back-end with feature-rich iOS front-end, I enhance and develop features in huge and complex codebase.

Software Stack: Python/Django, PostgreSQL, JavaScript.

May 2016 –
Oct. 2018 **Python developer**, *global freelancing platform [Upwork.com](https://www.upwork.com)*

Working alone, successfully finished 20+ jobs for various customers from around the globe. Single-handed developed a few small-to-medium software projects in Python from scratch:

PDF-processing web-app

Customer needed a tool to process multiple A4 PDF pages with tiled sewing patterns, to combine patterns into single industry-standard A0+ page. Margins had to be cropped, page tiling order had to be manually set with optional page addition/removing.

With open source Python libraries I made a non-interactive MVP, then built interactive web-app in Python/Flask/jQuery. The shippable software bundle was successfully deployed by customer in their corporate net.

SSL certificate issuing server with authentication

Customer needed certificate-issuing software, similar to Let's Encrypt but internal, for company VPN users. Users request cert with CLI tools and authenticate themselves via corporate e-mail.

I implemented server side of ACME v1 SSL-Cert issuing protocol, with minimal web-interface for confirmation checking, in Python/Flask. Also provided customer with CLI client-side tool to request and install issued certificates.

GPS/sensor polling daemon

Created network daemon for single-board computers like RaspberryPi, to poll GPS and other sensors connected via I²C bus, and send datagrams to telemetry server.

Motion data importing plugin for 3D toolkit

Heavily modified third-party plugin for importing skeletal animation format. Did a lot of 3D math (quaternions and stuff).

Jan. 2017 –
Feb. 2018

Lead Engineer, ISP Zelenaya Tochka, Vladivostok

Worked as lead network engineer at regional branch of federal Internet Service Provider, developing and maintaining telecom infrastructure, core network & servers.

In June 2017 deployed Linux-ISG infrastructure for IPoE connections which became so successful that the client base more than doubled in six months.

Developed and maintained in-house automation tools for network management, server back-end & billing databases (MySQL, PostgreSQL).

Wrote dozens of Python/shell scripts for infrastructure maintenance and monitoring (Zabbix, Nagios), like inspection daemon for high-speed asynchronous SNMP reads (30k+ client ports in 9 seconds) and mass-migration tool with SNMP writes.

Jan. 2013 –
Aug. 2016

IT Manager, Chita branch of the national telco TransTeleCom

Managed IT department of a telco/ISP: as team leader of four engineers developed and maintained corporate IT infrastructure: servers, workstations, LAN and telephony.

Personally developed a notable share of internal CRM / EMS software (written in Python/Flask + PostgreSQL) which was –and still is– vital to company's B2C and B2B broadband sales.

All company customer-faced services were run by me and my team: website, customer portal & personal area, e-mail & DNS services, voice assistant and call center with 5+ helpdesk operators.

July 2000 –
Dec. 2012

Senior Engineer, ZAO Transtelecom-Chita, ISP/telecom

Designed and implemented distributed corporate network (25+ regional offices).

Designed, built and maintained multi-tenant core network for SMB, 40+ clients had isolated regional VPNs over our core net. Best price/performance ratio was achieved using heavily customized Linux-based hardware.

Maintained and configured for clients VPNs our IP/MPLS site with hi-end Cisco ASR9k hardware, worked with broad range of networking and server equipment: from DSLAMs to Lucent ATM routers, from Hitachi NASes to HP UX servers with Lucent SDH management.

Built and maintained VoIP services, including 60+ voice conferencing server and Call Center for broadband customers' service, – with software-only Asterisk systems.