

Vsevolod Sipakov

Senior Platform / SRE Engineer

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Profile

Senior platform / SRE-oriented engineer with deep Linux, networking, automation, and backend experience across SaaS, telecom, ISP, and IoT environments. Strong in Python, AWS, Terraform, Ansible, Docker, PostgreSQL, monitoring, and network automation. Experienced in operating high-load production systems, modernizing legacy services, migrating workloads to AWS Lambda/ECS, and building internal tools that connect software engineering with infrastructure. Authorized to work in the U.S.; no sponsorship required.

Skills

Platform & Cloud: Linux, AWS Lambda, ECS, SQS/SNS, Docker, Terraform, Ansible, CI/CD, self-hosted services

Automation & Backend: Python, Django, FastAPI, Flask, REST APIs, SQLAlchemy, PostgreSQL, PL/SQL, Redis

Networking & Systems: TCP/IP, routing, VPN, DNS, FreeRADIUS, SNMP, NetSNMP/PySNMP, KVM, LXC

Observability & Security: Zabbix, Nagios, TLS/PKI, cryptography, client/server security, monitoring automation

Other: Rust, Go, TypeScript, C/C++, Qt, CUDA, Kafka, self-hosted LLM/RAG

Selected Achievements

Organized Linux/ISG authentication and network changes enabling IPoE connections, contributing to user-base growth from that migration period.

Built high-speed SNMP automation that read 30k+ client ports in 9 seconds and supported mass migrations across thousands of switches and routers.

Migrated authentication and webhook microservices to AWS Lambda and ECS containers and developed Terraform/Docker/test automation around cloud services.

Designed and operated telecom/ISP infrastructure including 25+ regional offices, 40+ isolated VPNs, DNS, mail, monitoring, VoIP, customer portal, and call-center systems.

Built internal-facing RAG/LLM services for a hosting-company consulting project.

Experience

Software Engineer, remote contractor

May 2025 – present

Infrastructure automation and internal platform consulting for a hosting company

- automated Linux infrastructure with Python, Terraform, and Ansible
- configured internal-facing RAG/LLM services

Software Engineer, Revel Systems, a Shift4 company – remote

Apr 2022 – Feb 2025

Backend and cloud engineering for a cloud-based Point-of-Sale SaaS platform

- migrated authentication and webhook microservices to AWS Lambda and ECS containers
- developed Terraform modules, Docker images, unit tests, and integration tests for cloud services
- created automation service for deployment, SaaS customization, and PoS equipment configuration
- built a high-performance certificate-signing microservice for IoT devices
- delivered features and resolved production defects in a large legacy Django/PostgreSQL codebase
- reviewed code and mentored junior engineers on maintainability and testing

Software Developer, Trexcel, www.trexcel.com – remote

July 2020 – Feb 2022

Backend, DevOps, and network-device service development

- implemented server-side features for customers' networking devices
- created REST services and client libraries for third-party API integrations
- built and maintained multi-stage Docker containers for a realtime GPU-intensive C++ object-detection solution
- customized a Go WebRTC service to expose RTSP streams over HTTP(S)
- integrated new APIs into an existing Python/Django codebase

Software Engineer, MERA – Nizhny Novgorod, Russia

Oct 2018 – July 2020

Outstaffed backend engineer for Revel Systems before later joining Revel directly

- developed features in a 500k+ SLOC Python/Django/PostgreSQL product codebase hosted in AWS
- delivered customer-facing Management Console features and fixed defects from the backlog
- helped prototype Python 3 migration and introduced Python 3-compatible changes
- performed code reviews and mentored team members

Backend Developer, Upwork, global freelancing platform

May 2016 – Oct 2018

Completed 20+ small-to-medium software projects for customers worldwide

- built an SSL/TLS certificate-issuing service in Python, similar to Let's Encrypt Boulder server-side software
- created a customizable DNS resolver plugin for VPN server endpoints
- developed a PDF-processing web service to auto-stitch multi-page clothing patterns into a single page
- fixed bugs and deployed Qt/C++ software for ATM-like cash-in terminals
- used Python, Flask, Linux, MySQL/PostgreSQL, pyOpenSSL, PySNMP, and OpenFlow

Lead Engineer, ISP Zelenaya Tochka – Vladivostok, Russia

Jan 2017 – Feb 2018

Led network, server, and automation work for a regional branch of a federal ISP

- organized and deployed Linux/ISG authentication and network infrastructure changes enabling IPoE connections instead of PPPoE, contributing to the user base doubling in six months
- developed in-house automation tools for network management, server backends, and billing databases in MySQL and PostgreSQL
- wrote Python and shell scripts for infrastructure maintenance and monitoring with Zabbix and Nagios
- created an asynchronous SNMP inspection daemon that read 30k+ client ports in 9 seconds
- built mass-migration tools with SNMP writes to thousands of switches and routers

IT Manager, Chita branch of the national telco TransTeleCom

Jan 2013 – Aug 2016

Managed a four-engineer IT department for telco/ISP infrastructure, servers, LAN, and telephony

- developed a significant part of internal CRM/EMS software in Python/Flask and PostgreSQL for B2C and B2B broadband sales
- built and ran website, customer portal, personal area, e-mail, and DNS services with the team
- built and maintained voice assistant and 24/7 call-center infrastructure with 10+ helpdesk operator capacity

Senior Network Engineer, LLC Transtelecom-Chita, ISP/telecom

July 2007 – Dec 2012

Designed, implemented, and maintained corporate, ISP, and telecom network infrastructure

- designed and implemented distributed corporate network for 25+ regional offices
- designed, built, and maintained multi-tenant core network for SMB customers with 40+ isolated regional VPNs
- achieved strong price/performance using heavily customized Linux-based hardware
- configured client VPNs on IP/MPLS sites with Cisco ASRgk hardware
- worked with equipment ranging from DSLAMs and Lucent ATM routers to Hitachi NASes and HP-UX servers with Lucent SDH management
- built and maintained VoIP services, including 60+ voice conferencing server and customer-service call center using Asterisk and SIP hardware

System Administrator / Network Engineer, LLC Megalink, ISP

Feb 1999 – June 2007

Built and maintained ISP server and network infrastructure with FreeBSD and Linux

- created a custom billing system for a small ISP in Perl 5 and PostgreSQL
- wrote custom Perl plugins for open-source FreeRADIUS and authored patches to its C code
- maintained website, DNS, mail, monitoring, and network-equipment management systems
- developed a large part of the customer portal web service
- patched and heavily customized open-source webmail software

Education

Chita State University, MSc / Engineer's Degree in Computer Engineering – Chita, Russia