

Professional Summary

Senior Backend Engineer focused on building scalable, reliable systems under real production load. I specialize in architecture evolution, performance optimization and turning complex legacy environments into maintainable platforms. My background in business and management allows me to align technical decisions with cost efficiency and product growth. I take responsibility for deadlines, quality and operational stability while mentoring engineers and raising the technical bar across the organization.

Employment History

Jane, Israel, Jun 2023 to Present Senior Python developer

System Evolution

- Rebuilt majority of legacy services (~90%) into maintainable modular architecture
- Introduced domain services, caching layers, async pipelines
- Designed systems that enabled **4x increase in paid feature set**
- Built user analytics layer (PostHog, Google Analytics) + replicating high-value event data into internal DB for analysis

Performance & Scalability

- Achieved **reduced DB load by 5x** through proactively identifying performance bottlenecks and redesigning high-impact data flows & pre-aggregation on data mutation & smart cache invalidation
- Implemented minute-throttled Redis regeneration model

Distributed & Async

- Real-time communication via WebSockets (Django Channels + Redis)
- Event-driven architecture using AWS SNS/SQS for notifications, emails and background processing
- Owned and maintained scheduled task microservices on AWS ECS

Team Growth

- Mentored junior engineers
- Managed remote cross-functional teams (BE, FE, DevOps, SecOps) in 4 countries

Monkeytech, Israel, May 2021 to May 2023 Senior Python developer

Backend & Fullstack Development with Python (Django, Flask) and Node.js in production environments

Invento Labs, Belarus, Mar 2020 to Apr 2021 Python developer

Production Python backends for Belarusian clients: warehouse rental (B2C/B2B), a medical registry for children, and a paid customs service with thousands of pre-submit validation checks on goods and vehicle declarations

Itransition Group, Belarus, Jun 2017 to Mar 2020 Python developer

Production Python backends for US clients — robot maintenance (work orders, parts, invoicing) and furniture e-commerce (catalog, stock, checkout, order pipeline); integrations and PostgreSQL

Jul 2007 to May 2017 Business owner & Investment Director

Education

Sept 2006 to May 2010

Bachelor's degree from Belorussian university (applied Computer Science), graduated with honors
Advanced software engineering skills developed through independent learning and leading production systems

Links

vitalyweb.com

Technical Expertise

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| • Backend: Python (Django, Flask, FastAPI, Odoo), Node.js (Express, NestJS) | • AWS: ECS, RDS, EC2, S3, ElastiCache, Kafka (MSK), SNS/SQS, Lambda, IAM | • Data: PostgreSQL, MS SQL, MongoDB, Redis, Elasticsearch, S3 | • DevOps: Docker, Kubernetes, CI/CD (GitHub Actions), Terraform |
| • Frontend exposure: React, TypeScript | • AI: LLM/RAG; tools: Cursor, Copilot, Claude Code | | |