
Oleksandr Lytvynov

Senior Full-Stack Engineer · Norway · Available for consulting

SUMMARY

Senior infrastructure and backend engineer based in Norway, working through Lytvynov Oleksandr Consulting. Background in Linux server operations and PHP/Laravel hosting platforms, now building Python/FastAPI systems with LLM and retrieval pipelines: an AI course generator, a scraping platform, a Telegram community manager, a self-hosted CRM and this site with its AI twin. I favour systems that stay quiet in production: clear ownership, observability from day one, honest scope.

SENIOR DEVELOPER & SYSTEM ADMINISTRATOR — FASTSERVERS, ESTONIA (REMOTE)

December 2019 – December 2022

Modernized a legacy infrastructure with poorly structured systems. Built scalable IaC with Ansible and Terraform, simplified system architecture through microservices, and established best practices for operational reliability and scalability.

- Modernized legacy infrastructure with automated CI/CD solutions and proactive monitoring
- Built scalable Infrastructure-as-Code with Ansible and Terraform
- Designed microservices architecture for efficient integration
- Technologies: Linux, Bash, MySQL, Laravel, REST API, WHMCS, Ansible, AWS, Zabbix

TECHNICAL PROJECT SPECIALIST — QTC, CZECHIA-UKRAINE (REMOTE)

September 2009 – December 2022

Built a reliable platform offering competitive web and VPS hosting solutions. Developed scalable infrastructure with CDN, geo-DNS, automated setups, proactive monitoring and dynamic backup systems.

- Developed scalable hosting infrastructure with CDN, geo-DNS, and automated CMS setups
- Implemented proactive monitoring and dynamic backup systems
- Optimized resource usage and automated deployment processes
- Technologies: Bash, Nginx, Apache, Nagios, PowerDNS, MySQL, PostgreSQL, PHP

HELP DESK ENGINEER — TECHNO-WEB, UKRAINE

November 2007 – November 2011

Strengthened Techno-Web's reputation by improving customer service and developing a systematic approach to content management and security control.

- Improved customer service and developed systematic approach to content and security
- Consistently positive customer feedback strengthened company market position
- Technologies: Linux, Bash, Perl, VPN, Proxy, anti-DDoS, Nagios, Jail, OpenVZ

SELF-EMPLOYED WEB DEVELOPER — LUHANSK, UKRAINE

January 2003 – November 2007

Offered website design and development for corporate clients in a rapidly growing online services market. Built long-term relationships and a subscription-based support model, resulting in a loyal customer base.

- Developed customized websites tailored to client needs
- Established subscription-based model for ongoing support
- Technologies: PHP, MySQL, HTML, CSS, JavaScript, Adobe Photoshop, Macromedia Flash

TECHNICAL LEAD — PROTON, UKRAINE

January 2002 – January 2003

Designed and implemented computerized solutions to improve efficiency and security in power and cooling systems for data center operations. Led technical design from planning to installation.

- Led design and integration of structured cabling systems for data center operations
- Delivered cost-effective and stable power and cooling system
- Technologies: Visio, server diagnostic tools, cable testers, Windows Server

SKILLS

Languages: Python · TypeScript · PHP · Bash · SQL

Backend: FastAPI · SQLAlchemy 2 · Alembic · Celery · Temporal · Laravel · Next.js API routes · Prisma

Data: PostgreSQL · pgvector · Redis · MinIO · MySQL

Infrastructure: Linux · Docker Compose · Nginx · Let's Encrypt · GitHub Actions · Kubernetes (k3s, ArgoCD) · Cloudflare

AI: Gemini (google-genai) · RAG with pgvector and hybrid search · structured outputs · prompt-injection defence · cost budgets · evaluation

Frontend: Astro · React · Tailwind · shadcn/ui · Next.js

Operations: OpenTelemetry · Prometheus · Grafana · Jaeger · structured logging · GDPR-aware data retention

DevOps: Ansible · Terraform · CI/CD · Git

Observability: Zabbix · Nagios · Monitoring

LANGUAGES

Ukrainian	Native
Russian	Native
English	Fluent
Norwegian (Bokmål)	Fluent

EDUCATION

Computer Science (recognized as Norwegian short master's degree equivalent)

East Ukrainian National University

1998 – 2002

Degree recognized as equivalent to a Norwegian short master's degree by NOKUT.

PROJECTS

- AI course generator for an e-learning platform: Temporal-orchestrated course generation with Gemini, 16 orchestrator agents, multi-tenant PostgreSQL with row-level security, Entra ID SSO, QR-verified certificates; CI-driven deploys. 2026, private.
- Tech: Python · FastAPI · Temporal · PostgreSQL + pgvector · Gemini · Next.js
- Web scraping and analysis platform: Celery stage queues, sitemap/robots discovery, httpx with proxy pools and Playwright, Gemini structured analysis, LLM cost logging, JSON/CSV/Markdown/PDF exports. 2026, private.
- Tech: Python · Celery · Playwright · PostgreSQL · Gemini
- Telegram community manager: Webhook bot with Telethon sync, anti-spam strategy registry, embeddings in pgvector, RSS relevance scoring with Gemini, React admin. 2026, private.
- Tech: Python · FastAPI · pgvector · Gemini · React
- Self-hosted CRM for a consulting business: Single Next.js 15 application with Prisma, headless Rocket.Chat, MediaCMS and MinIO, appointments and video calls, soft delete with optimistic locking, embeddings worker, GitHub Actions deploy. 2026, private.
- Tech: TypeScript · Next.js · Prisma · PostgreSQL · Docker
- Personal site with an AI twin: This site: FastAPI + Astro, Gemini-only twin with scope gate and injection defence, GitHub repositories ingested into pgvector with secret scanning, GDPR retention, CI-only deploys. 2026.
- <https://personal.dfcdn.net>
- Tech: Python · FastAPI · Astro · pgvector · Gemini · Docker
- Emergency Power & Water Infrastructure: Facilitating backup solutions for power and alternative water supply, supporting local communities and ensuring access to necessary resources.
- Hosting company site with AI-generated content: Legacy PHP moved to a PSR-4 MVC layer, daily Gemini content pipeline with JSON schema and search grounding, Cloudflare purge and IndexNow, Turnstile. 2025, private.
- Tech: PHP · MySQL · Gemini · Cloudflare
- Ubuntu server automation toolkit: Bash toolkit that turns a fresh Ubuntu 22.04 server into a tuned LEMP host: RAM-derived PHP-FPM and MySQL settings, vhost + Let's Encrypt in one command, Laravel bootstrap. 2025, public.
- <https://github.com/barslg/postinstall>
- Tech: Bash · Nginx · MySQL · PHP-FPM · Certbot
- Evacuation Logistics Support: Voluntary assistance for safe evacuation from war zones, with a focus on inclusive logistics that accommodates different needs.
- Norwegian sole-proprietorship tax calculator: Dependency-free web calculator for Norwegian ENK taxes (2025 rates) with reverse calculation and four interface languages. 2025, public.
- <https://github.com/barslg/enk-skattekalculator>
- Tech: JavaScript · HTML · CSS
- Protective Equipment Production: Production and distribution of protective equipment, promoting safety and care for people in demanding situations.
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