

VIKTOR VILSKYI

Software Engineer & Cloud Architect

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PROFILE

13+ years building distributed, event-driven, and cloud-native systems. Specialized in real-time streaming, microservice and serverless architecture, and AI-powered pipelines. Proven track record shipping production-grade systems and owning architectures end-to-end.

CORE STACK

TypeScript, JavaScript, Python, Node.js, NestJS

React, Next.js, Angular

Kafka, Pub/Sub, gRPC, WebSockets, REST APIs, GraphQL

Postgres, MongoDB, Firestore, Redis, RTDB, Supabase, Elasticsearch, BigQuery, Snowflake, Spark

Docker, Kubernetes, Helm, Kustomize, Terraform, Jenkins, GitHub Actions, ArgoCD, Argo Workflows, Temporal, JFrog, Consul

AWS, GCP, RunPod

LLMs, Prompt Engineering, LoRA, AI Agents, RAG, NLP, Vertex AI, LangGraph, LlamaIndex

Architecture, Testing, Automation

EDUCATION

Trade & Economics College
Junior Specialist — Stock Market
Kyiv, Ukraine · 2009

LANGUAGES

English, Russian, Ukrainian, Hebrew

EMPLOYMENT HISTORY

Founder & Cloud Architect | Arcolabs

Jan 2026 – Now · Remote · Estonia

- Cloud software architecture (AWS, GCP, Runpod) and software engineering (Python, Node.js, JavaScript/Typescript)
- AI solutions, automation and integrations. Building AI workflows and AI agents (LLM, RAG, LangGraph, LangChain, LlamaIndex, Temporal)

Lead Software Engineer | Terrific Live

Oct 2024 – Oct 2025 · Remote · Tel Aviv

- Scaled Live Sessions infra to support thousands of concurrent users, boosting distributed real-time platform reliability.
- Engineered a custom RTDB load balancer across multiple Firebase instances, bypassing instance number limits, cutting costs, and increasing throughput.
- Built a dual-mode chat system leveraging Firebase RTDB for low-latency messaging and Twilio API for reliable carrier-grade fallback.
- Optimized Firestore schema to eliminate duplication, significantly reducing read costs, sync issues and maximizing query efficiency.
- Enhanced Pub/Sub and REST API data pipelines, resolving complex race conditions through deep architectural refactoring.
- Implemented a Factory Pattern for e-commerce integrations, streamlining scalable third-party storefront connectivity.
- Hardened Docker security and managed full GCP DevOps.
- Implemented PoC of AI influencers for live sessions

Senior Backend Engineer | Rapid7

Jul 2023 – Oct 2024 · Hybrid · Tel Aviv

- Maintained core platform services powering Rapid7 Threat Command, a real-time cybersecurity intelligence platform.
- Provisioned cross-cloud infrastructure (GCP & AWS) using Terraform and managed Kubernetes container orchestration.
- Built core microservices for security data parsing pipelines and authored shared libraries adopted across multiple engineering teams.
- Designed greenfield CI/CD 2.0 pipelines via Jenkins and GitHub Actions, boosting deployment velocity and reliability through automated testing.
- Hardened Docker container security fleet-wide.
- Participated in architecture decisions for new flows and products, factoring in scalability, maintainability, and engineering best practices.

Senior Backend Engineer & Tech Lead | SyteAI

Sep 2021 – Jul 2023 · Hybrid · Tel Aviv

- Led backend architecture for product matching, recommendation, and search services handling millions of e-commerce queries.
- Developed core matching logic in Erlang, building a high-concurrency, fault-tolerant foundation for real-time discovery.
- Integrated Elasticsearch and vector databases to power text-augmented search and image-similarity recommendations.
- Engineered a high-throughput ingestion pipeline, leveraging AI image tagging, vector embeddings, Argo Workflows, and Apache Spark for million-row XML feeds.
- Built a containerized local dev environment via Docker Compose,

CERTIFICATIONS

Amazon Web Services (AWS)

Certified Cloud Practitioner

July 2026 - July 2029

Google Cloud Platform (GCP)

Cloud Digital Leader

September 2026 - September 2029

Hugging Face

Certificate of Excellence (AI Agents)

September 2026

SIDE PROJECTS

AI Avatar Platform

Built a hyper-realistic AI avatar platform from scratch: event-driven GCP and Runpod microservices with a self-developed Pub/Sub workflow engine and custom job manager, LoRA training pipelines for identity-consistent avatar generation, and integrations with Gemini Image 3 Pro, Kling 3 Pro, and ElevenLabs v3 for image, video, audio, mimic motion, and lip sync generation.

Engineered AI model quantization for GPU efficiency, multiprocessing for throughput, React UI with real-time updates, and a full authentication system with password and Google OAuth flows.

Bookkeeping

Multi-currency bookkeeping application with independent financial tracks for digital nomads, supporting a configurable base currency and seamless multi-currency input across entries.

Architected Kafka-based event-driven microservices with a Python HTTP gateway, decoupling service boundaries for scalability and maintainability. Built a React.js UI with real-time updates and social network authentication..

Autonomous Quadcopter

Self-assembled and programmed an autonomous indoor drone on Raspberry Pi 4 with pin extenders for expanded GPIO connectivity.

6 ultrasonic sensors for obstacle avoidance, IMU-based stabilization, real-time A/V streaming, and 5 flight modes including face-detection-based tracking and autonomous space scanning.

- mentored engineers, and established comprehensive automated testing.
- Built a Kubernetes, namespace-based environment for integration testing, enabling isolated, reproducible test runs.

Senior Backend Engineer | Oosto (ex AnyVision)

Jan 2020 – Feb 2021 · Hybrid · Holon

- Developed microservices for real-time face/body detection and recognition pipelines, collaborating with CV teams to deliver production systems. Integrated AI inference services.
- Built a Node.js Camera Service API gateway integrating Kafka, gRPC, Consul, Redis, Socket.io, and PostgreSQL, backed by 400+ automated tests and Prometheus benchmarks.
- Engineered a Go-based Pipeline Manager using gRPC and Redis/Consul to process live streams, stress-tested to 500 pipes and 5,000 concurrent video streams.
- Built a dynamic GPU load balancer that redistributed video streams across pipes based on moving average load, reliability scores, and cooldown windows.
- Authored shared gRPC and Consul client libraries featuring round-robin load balancing, distributed via JFrog with full regression test coverage.

Team Lead & Full-Stack Developer | SkaleCRM

Feb 2018 – Dec 2019 · Office · Herzliya

- Led a 3-person engineering team managing sprints, tech priorities, and performance while remaining hands-on across the full stack.
- Designed a white-label CRM platform for financial institutions, featuring a highly configurable, WiX-like interface adaptable across verticals.
- Built a C++ connector using Sockets and MT4/MT5 libraries to handle real-time trading deposits, orders, and account states.
- Implemented OAuth 2.0/SSO and secure payment gateways, deploying on AWS EC2 with WAF, CloudFront CDN, and IP-based security.
- Designed a seamless flow for payment provider integrations, abstracting provider-specific logic to enable fast onboarding of new payment methods with minimal code changes.

Founder & Team Lead & Software Engineer | ITcode

Jan 2014 - Oct 2017 · Office · Kyiv

- Founded and operated a software startup, managing a small team and overseeing end-to-end product and business delivery.
- Led full-stack engineering for client projects, driving the entire lifecycle from architecture and implementation to deployment.
- Executed SEO strategies for websites and e-commerce stores, significantly improving organic visibility and search rankings.

Team Lead & Software Engineer | Lungor

Jan 2013 - Dec 2013 · Office · Kyiv

- Led a cross-functional team of software engineers and SEO specialists to deliver high-performing digital products.
- Developed websites and e-commerce stores, driving client-facing projects through the full software lifecycle.
- Specialized in advanced SEO, optimizing web properties to boost search engine rankings and accelerate organic traffic growth.

Full-stack developer | Freelance

Feb 2009 - Dec 2012 · Remote · Kyiv

- Delivered freelance full-stack engineering across web, e-commerce, and custom software projects for diverse clients and types of businesses.

Junior PHP Developer | Antonov ASTC

Jan 2005 - Nov 2005 · Office · Kyiv

- Developed automated systems as a Junior PHP Developer, contributing to backend implementation and core process automation.