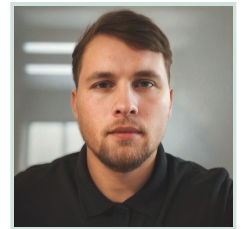


Pavel Petrov

SOFTWARE ENGINEER • SYSTEMS ARCHITECT

I design **distributed systems and cloud infrastructure** that stay reliable while they grow.



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PROFILE

Software engineer with 8+ years designing distributed systems, cloud infrastructure and Kubernetes-based platforms in TypeScript, Rust and .NET. I take features from the first architecture sketch through to production and stay responsible for them after they ship - microservices, event-driven pipelines and monolith-to-service migrations that survive real traffic. I work close to product and design rather than behind a ticket queue, and I write decisions down so the next engineer does not have to reverse-engineer them.

- **Architecture ownership** - services, data models and delivery, not just tickets.
- **End-to-end delivery** - PostgreSQL and Kafka through to React, no hand-off gaps.
- **Reliability & observability** - OpenTelemetry and Grafana turning incidents into boring fixes.
- **AI where it pays off** - LLM features shipped in live products, not prototypes.

EXPERIENCE

Software Engineer at XBE

Apr 2025 – Present • Helsinki, Finland

- Design and ship features in data-heavy, production-critical systems for heavy materials and construction logistics.
- Drive architecture decisions across services, data models and delivery.
- Build observability into distributed systems with OpenTelemetry and Grafana, cutting the time it takes to explain a production incident.

Stack: Rust, TypeScript, Ruby on Rails, Bun, PostgreSQL, Kubernetes, OpenTelemetry, Grafana, Redis, GCP, React, Next.js

Fullstack Developer at TKB International

Nov 2022 – Apr 2025

- Built backend services and client-facing features for B2B platforms.
- Migrated core systems to PostgreSQL, improving reliability and query performance.
- Refactored monolithic modules into maintainable, independently testable services.

Stack: TypeScript, NestJS, PostgreSQL, MongoDB, Docker, Redis, GCP, React, Next.js, GraphQL, Jest, Playwright

Fullstack Developer at Viar IT

Aug 2020 – Sep 2022

- Engineered scalable microservices for content and media processing pipelines.
- Led the architectural migration from monolith to distributed services.
- Handled high-volume workflows with Kafka-based event processing on Kubernetes.

Stack: .NET Core, Kafka, Docker, Kubernetes, Redis, Python

Fullstack Developer at Smartex

Jul 2019 – Aug 2020

- Delivered end-to-end product features from design through production deployment.
- Optimized user-facing performance across client applications.
- Collaborated closely with designers on experience refinement.

Stack: TypeScript, React, Next.js, Node.js, Docker, PHP

TECHNICAL SKILLS

LANGUAGES	TypeScript, Python, C# / .NET, Rust, Swift, PHP
BACKEND & APIS	Node.js, Bun, Deno, NestJS, .NET Core, GraphQL, REST, WebSockets, gRPC, tRPC
DATA & MESSAGING	PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch, Kafka, NATS, RabbitMQ
DEVOPS & CLOUD	Docker, Kubernetes, CI/CD, Nginx, Traefik, AWS (EC2, S3, Lambda), GCP (Cloud Run), Azure
OBSERVABILITY	OpenTelemetry, Prometheus, Grafana, Loki, Jaeger, ELK Stack, CloudWatch
AI & ML	LLM API integration, prompt engineering, RAG, embeddings and semantic search, vector databases, LangChain, Llamaindex, fine-tuning, HuggingFace
FRONTEND	React, Next.js, Vue, Astro, Gatsby, React Native / Expo, HTML5, CSS3, SASS/SCSS
TESTING	Jest, Vitest, Playwright, React Testing Library

SELECTED PROJECTS

XBE	CURRENT WORK	x-b-e.com
The system of action and superworkforce for heavy materials, logistics and construction.		
PriceBee	PRODUCT	price-bee.com
Intelligent pricing and market analytics for e-commerce businesses.		
Viar	PRODUCT	viar-va.ru
Document management technologies - systematizing and storing information at scale.		
Papermind	SOLO · SWIFT	pmind.app
A private, intelligent home for the documents that matter most - organized smartly, secured completely, ready online or off.		
Yappify AI	SOLO · REACT NATIVE	App Store
Speaking practice with an AI tutor that adapts to your level: instant grammar corrections, vocabulary building and progress tracking through natural conversation.		
Typeful	SOLO · TYPESCRIPT	npm
End-to-end type safety from database schema to frontend, so a changed column surfaces as a compile error everywhere it is used rather than a runtime bug.		

EDUCATION

The Bonch-Bruevich Saint Petersburg State University of Telecommunications
2007 – 2012 · Telecommunications

LANGUAGES

English	Professional working
Finnish	Elementary (A1.2)
Russian	Native / bilingual

AVAILABILITY

BASED IN	Helsinki, Finland	ELIGIBILITY	Finnish work permit
WORK MODE	Helsinki hybrid, or remote across EU time zones	CONTACT	pavel@iamsuperdev.com