

Evgenii Perminov

Principal Software Engineer

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Summary

Principal Software Engineer with **11 years of experience** building production-grade web applications and distributed systems. Strong expertise in **Node.js, TypeScript, React, PostgreSQL, and cloud-native infrastructure**, with **end-to-end ownership** from system design to deployment and observability.

Experience

Principal Software Engineer, 2025 – Present Clairbytes OÜ Tallinn, Estonia | Remote

Offer Inspector (SaaS, in production)

- Built a full-stack SaaS for comparing job offers by net income, taxes, PTO, and benefits across different employment and contracting models.
- Designed an AST-based tax engine for salary calculations across Estonia and Poland, supporting multiple legal forms, net-to-gross calculations, employer costs, paid leave and effective salary comparisons.
- Set up GitOps-based deployment on a self-hosted k3s cluster with Argo CD, blue-green releases, automated database migrations and encrypted secrets.

Embeddorium (open source)

- Built an actor-based RAG workbench with UI and MCP integration.
- Added retrieval evaluation with relevance annotation and Recall@K, MRR, and nDCG metrics.
- Implemented configurable dense, BM25, and hybrid search with reranking and fusion.
- Built a plugin-based architecture for extending retrievers, rerankers, chunkers, and providers.
- Added interactive vector-space visualization for exploring embeddings, clusters, similarity, and retrieval results.

Senior Software Engineer, 2021 – 2024

Katana Cloud Inventory Tallinn, Estonia | Remote

- Built and optimized microservices in a distributed system (~100 services) using Kafka and PostgreSQL.
- Delivered cross-team features including API gateway, webhooks, sales orders, and inventory planner.
- Re-architected manufacturing planning logic to reduce calculation time and eliminate recurring calculation errors.
- Led technical investigations, estimation, and epic planning.
- Improved CI/CD pipelines for faster, more reliable delivery.

Skills

Programming Languages:

TypeScript JavaScript
Python Rust Go SQL

Back-end:

Node.js NestJS REST
Express FastAPI gRPC

Front-end:

React Redux Next.js
Zustand Tailwind Vite
GraphQL Apollo Client

Databases:

PostgreSQL MongoDB
Redis Qdrant

AI:

Model Context Protocol (MCP)
Retrieval-Augmented Generation (RAG)
Large Language Models (LLMs)
Retrieval Evaluation

Experience (continued)

Senior Software Engineer, 2020 – 2021

Huawei R&D Lab Saint Petersburg, Russia | Remote

- Built the front end of a C/C++ IDE using the Visual Studio Code API, Svelte, Node.js, and TypeScript.
- Implemented a remote debugging server and gRPC-based communication.
- Built CI/CD pipelines for packaging and delivering IDE extensions.

Full-Stack Developer, 2018 – 2020

Diversido Remote

- Built production front-end features using React, Redux, and TypeScript.
- Developed back-end services using Node.js, NestJS, Express, PostgreSQL, Ruby on Rails, and Go.
- Worked directly with clients and product teams on requirements, technical design, and delivery.
- Built CI/CD pipelines and containerized deployments using Docker and AWS.

Full-Stack Developer, 2017 – 2018

Ecombix Saint Petersburg, Russia

- Developed and improved a TypeScript-based integration system using RabbitMQ to connect the platform with Shopify, Magento, and WooCommerce.

Early Career (Junior Roles), 2014 – 2017

Burning Buttons, 7Bits and Avelix Omsk, Russia

- Developed a Facebook chatbot using Node.js, Express, and PostgreSQL, and integrated Stripe API for payment processing.
- Contributed to front-end development for banking and medical applications using React and Redux.

Education

Dostoevsky Omsk State University

Bachelor's Degree in Applied Mathematics and IT

2011 – 2015

Skills (continued)

Architecture:

Distributed Systems

Microservices

Event-Driven Architecture

System Design

API Design

Engineering Practices:

SOLID

TDD

KISS

DRY

Scrum

Agile

Design Patterns

DevOps:

Docker

AWS

Kubernetes

GitHub Actions

Argo CD

CI/CD

Aptible

Heroku

Okteto

Datadog

Loki

Prometheus

Grafana

Messaging & Streaming:

Kafka

RabbitMQ

Debezium

Testing:

Jest

Mocha

Chai

Cypress

Supertest

Languages

English: Advanced

Russian: Native

Estonian: Beginner