

Yaroslav Matushevych

Staff Software Engineer | AI Agent Systems & Distributed Backend Engineering

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Summary

Staff Software Engineer with 8+ years shipping high-scale TypeScript, Node.js, and PostgreSQL systems for Zoopla (100M+ monthly requests) and Ancestry (3.6M+ subscribers). Hands-on with production AI agent tooling (MCP protocol) and LLM integration, on top of deep Postgres query optimisation at scale. Strongest turning ambiguous, 0-to-1 problems into shipped systems. **Regular speaker** at JS Monthly Meetup, London.

Experience

Senior Software Engineer, Zoopla – London, UK

Mar 2025 – Present

- Architected and owned **5+ high-load microservices** for Zoopla's property and mortgage journeys using an event-driven architecture built on Node.js, TypeScript, Python, Java, GraphQL, and AWS, handling **100M+ monthly requests** at p99 <200ms with **99.9% uptime**.
- Drove **£250K+ in monthly revenue growth** by designing and shipping third-party financial provider integrations, increasing partner coverage by **40%**.
- Improved platform scalability and reduced deployment cycle time by **~35%** through CI/CD redesign and observability tooling (CloudWatch, structured logging, alerting), cutting mean time to detect incidents in half.
- Pioneered AI agent tooling using the MCP protocol - built and rolled out Claude Code workflows that automate repetitive engineering tasks across **200+ PRs**, adopted team-wide.
- Provided technical leadership for 2 engineers through design reviews, pairing, and code standards - one promoted within the year.

Senior Software Engineer, Ancestry (Contract) – Remote

Sept 2023 – Feb 2025

- Architected a DNA tree comparison system in Next.js/React with a custom BFF (Backend-for-Frontend) layer, reducing client-side data orchestration complexity by **~60%** and enabling ancestral connection discovery for **3.6M+ subscribers**.
- Cut average API response time by **~30%** through PostgreSQL query optimisation, caching strategy, and front-end data normalisation - validated through load testing across sustained traffic peaks.
- Led delivery across distributed teams in US, Europe, and APAC time zones; established PR standards, code review culture, and E2E testing coverage that became the team baseline.

Product Engineer, Better.uk – London, UK

Aug 2022 – Jun 2023

- Led design and development of a new mortgage product UI from scratch using TypeScript, React, Next.js, Node.js, Python, PostgreSQL, and GraphQL - the primary customer-facing surface for a platform driving **£0.9B in annual revenue**.
- Built and automated the core experimentation engine for A/B, Auto-Targeting, and Multivariate Testing, enabling the growth team to run **3× more concurrent experiments** and improving lead conversion rate by **~18%**.

Software Engineer, Amdocs (Intellias) – Remote

Jun 2021 – Jul 2022

- Modernised a legacy Telecom platform by migrating from outdated libraries to current versions, improving performance, security, and long-term maintainability of a critical production system.
- Achieved a **40% performance improvement** through targeted front-end optimisations, validated using Google PageSpeed Insights, GTmetrix, and Lighthouse.
- Conducted technical interviews for engineering candidates, ensuring a high bar for skill set and cultural fit within the team.

Software Engineer, Dinamicka

Feb 2020 – Jun 2021

- Reported directly to the CPO as lead engineer for a SEO services platform, empowering owners to monetise their SEO expertise and visualise client results through interactive data dashboards.

Front-End Developer & Mentor, Innovecs & Dan-IT Education

Nov 2017 – Feb 2020

- Built real-time FinTech trading dashboards using WebSockets delivering sub-second market data updates to **thousands of concurrent users**.
- Mentored **30+ students** through hands-on coaching, DSA fundamentals, and mock interviews - several went on to roles at established tech companies.

Skills

AI/LLM: LLM Integration, AI Agent Orchestration, MCP Protocol, OpenAI / Anthropic APIs

Languages: TypeScript, JavaScript, Python, Java

Backend & APIs: Node.js, Express, GraphQL, REST APIs, Microservices, Event-driven Architecture, Distributed Systems

Data & Storage: PostgreSQL (query optimisation, indexing), MySQL, MongoDB, Redis, Caching Strategies

Frontend: React, Next.js, Redux / RTK / Zustand, Tailwind, CSS/SCSS, Webpack, Storybook

Infrastructure: AWS (Lambda, ECS, RDS, CloudWatch, EventBridge), Docker, Kubernetes, Terraform, CI/CD

Education

IAPM University, BSc in Software Engineering

Kyiv, Ukraine

Speaking & Mentorship

JS Monthly Meetup, London: Regular speaker at one of London's largest JavaScript meetups, presenting on frontend architecture, performance, and modern engineering practices.

Independent CS Tutor: Mentored 30+ engineers on DSA, system design, interview preparation, and career development.