

Andrii Popenko

Engineering Manager · Software Architect

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PROFESSIONAL SUMMARY

Engineering Manager and Software Architect with 9+ years of experience building high-scale e-commerce systems. Led a team of 8 engineers on a platform processing **12,000+ orders/day**. Architected a recommendations engine serving **40M+ queries/month at 99.99% availability**. Combines deep technical expertise (TypeScript, React, Node.js, Python, ML) with proven leadership: hiring 20+ engineers, driving technical strategy, and delivering measurable business outcomes.

CORE COMPETENCIES

Engineering Leadership	Software Architecture	Technical Strategy & Roadmapping	High-Load Systems Design
E-commerce Platforms	ML / Recommendation Systems	Team Scaling & Hiring	Cross-functional Collaboration
Performance Engineering	Agile / Scrum	Code Review & Mentoring	Stakeholder Management

EXPERIENCE

Engineering Manager — Aleph1

Jan 2024 – Present

Barcelona, Spain

- Led a team of 8 engineers delivering features on a high-volume e-commerce platform processing **12,000+ orders/day**
- Architected a high-load recommendations service handling **40M+ queries/month at 99.99% availability** with zero unplanned downtime
- Designed and deployed multiple ML-powered recommendation models — Frequently Bought Together, Similar Products, Trend Forecasting, and Occasion-Based Personalization — driving a **40% increase in recommendation-attributed revenue**
- Developed a proprietary trend forecasting model from the ground up, applying Fourier transform analysis to time-series sales data across the full product catalog to surface emerging trends in real time
- Scaled engineering team: hired **20+ engineers**, conducted **200+ technical interviews**
- Drove RFC process, architectural decisions, and cross-team technical strategy
- Owned production incident response within team's domain
- Led AI adoption across engineering teams: ran workshops on coding agents and automation with Claude Code, establishing it as a standard development tool company-wide

Senior Software Engineer — Aleph1

Jun 2020 – Jan 2024

Barcelona, Spain

- Contributed to e-commerce platform growth from early stage to current scale
- Resolved complex reliability, resilience, and performance challenges
- Designed and built the React design system and component library
- Conducted code reviews and mentored junior engineers

Software Engineer — Shwartzcode

May 2019 – Jun 2020

Kyiv, Ukraine

- Built pixel-perfect, accessible web interfaces; improved backend service performance
- Implemented design system and component library for a call-centre application

Software Engineer — Hasky

Jun 2018 – May 2019

Kyiv, Ukraine

Developed and maintained web services using React and Node.js.

Software Engineer — Mamontova Studio

Jan 2018 – Jun 2018

Kyiv, Ukraine

Built client websites using WordPress, PHP and TS.

Teacher of Programming — Main Academy

Sep 2019 – Nov 2021

Kyiv, Ukraine

Taught HTML, CSS, JS, React; prepared students for their first engineering roles.

Senior Teacher of Robotics & Programming — Robocode

Sep 2016 – Jun 2019

Kyiv, Ukraine

Taught robotics and programming; led school curriculum as senior teacher.

Neutron Physics Engineer — SSTC NRS

Jun 2016 – Jan 2018

Kyiv, Ukraine

Calculations of neutron transients in the reactor core and spent nuclear fuel using Python and Fortran.

TECHNICAL SKILLS

Primary: TypeScript, JavaScript, React, Next.js, Node.js, NestJS, Python, ML (scikit-learn, TensorFlow, PyTorch)

Architecture: Microservices, high-load system design, REST, GraphQL, RabbitMQ, WebSockets

Infrastructure: AWS, Docker, Kubernetes, GitHub Actions, CircleCI

Databases: PostgreSQL, MongoDB, Redis, Elasticsearch, Neo4j, MySQL

Other: Git, Kibana, Logstash, Webpack, Astro.js

EDUCATION

National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute"

Sep 2016 – Jun 2018 — Master of Nuclear Power Engineering

Sep 2012 – Jun 2016 — Bachelor of Nuclear Power Engineering

LANGUAGES

English (professional), Ukrainian (native)