Svetlana Pichugina

Senior AI Engineer | Agentic Systems & AI Infrastructure

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PROFESSIONAL SUMMARY

Senior AI Engineer with 10+ years of software engineering experience specializing in production LLM applications, agentic systems, and AI infrastructure. Independently architected autonomous testing infrastructure achieving 80–90% hands-off nightly execution and developed 22 reusable agentic workflow components. Experienced in enterprise AI products, agent orchestration, distributed systems, and reliable autonomous execution.

PROFESSIONAL EXPERIENCE

Smartcat — Senior AI Engineer | *Aug 2024 – Present*

Architect production AI systems and reusable agentic infrastructure for an enterprise AI platform. Own autonomous testing architecture and workflow components adopted across 2 engineering teams.

- Achieved 80–90% autonomous completion of 4–7-hour nightly regression runs by independently building an AI-powered testing system in 2 months, covering end-to-end workflows across 7 file types. Handled ~80% of infrastructure failure cases without LLM intervention through deterministic recovery with 11 allowlisted actions.
- Built 22 of 37 reusable agentic workflow components (59%), enabling reuse across 2 engineering pipelines and integration of automated merge request testing in ~1 week through modular architecture and Temporal orchestration.
- Contributed to delivering a product in 4 weeks against an initial 4-month estimate as part of a 4-engineer team. Managed up to 12 concurrent AI-assisted tasks, reaching a personal peak of 29 AI-generated merge requests in 1 day; ~90% of AI-generated MRs within assigned tasks passed automated tests on the first attempt.
- Co-architected and launched an AI agent platform adopted by 20+ enterprise companies by implementing production agentic workflows with RAG, vector retrieval, context management, and tool calling.
- Contributed to an AI-powered localization platform generating 10% of company revenue within 6 months of launch, participating in the architecture and delivery of the product in 4 months.

Cross-Team Impact: Supported adoption across 2 engineering teams and mentored 3 QA engineers through architecture sessions, documentation, and hands-on pipeline development.

Technologies: TypeScript, Node.js, Temporal, MCP, Playwright, OpenAI API, Anthropic Claude, RAG, Weaviate, Langfuse, PostgreSQL, Kubernetes, Docker.

Trustform — Senior Full-Stack Engineer | *Dec 2021 – Aug 2024*

Developed a configurable compliance platform supporting regulated KYC and customer onboarding workflows.

- Reduced KYC review time by 2× by implementing configurable compliance workflows.
- Accelerated delivery of customer-specific functionality by 4× through architectural redesign and streamlined engineering workflows.

Technologies: TypeScript, React, Node.js, Fastify, PostgreSQL, Docker.

N1.RU (Cian Group) — Frontend Engineer | *Jun 2020 – Dec 2021*

Developed customer-facing applications and payment services for a real estate marketplace.

- Improved page performance by up to 15× by migrating application pages from Vue 2 to Nuxt.js with server-side rendering.
- Implemented Apple Pay, Google Pay, and fraud protection for payment workflows.

Technologies: Vue.js, Nuxt.js, TypeScript, Node.js.

LC Group — Frontend Engineer | *May 2018 – Jun 2020*

Developed fintech applications and payment infrastructure across international markets.

- Delivered a fintech MVP in 8 months, enabling recovery of development costs within 4 months of launch.
- Integrated Visa, Mastercard, JCB, and regional payment providers.

Technologies: Angular, TypeScript, Node.js.

IT Megastar — Frontend Developer | *May 2017 – May 2018*

Developed enterprise web applications using React, Redux, Angular, Vue.js, TypeScript, and Node.js.

Tensor (SBIS) — Software Engineer | *Aug 2015 – May 2017*

Developed enterprise applications for a business software platform serving 4.5M+ customers.

- Reduced production incidents by 25% by implementing platform improvements and resolving recurring issues.

TECHNICAL SKILLS

Programming Languages: Python, TypeScript, JavaScript, SQL

Frontend Frameworks & Libraries: React, Vue.js, Angular, Next.js, Nuxt.js, Redux

Backend & Databases: Node.js, Fastify, PostgreSQL, REST APIs

Agentic AI & LLM Engineering: AI Agents, Agentic Workflows, Model Context Protocol (MCP), Retrieval-Augmented Generation (RAG), Tool Calling, Context Engineering, Agent Orchestration, OpenAI API, Anthropic Claude

AI Infrastructure & Tools: Temporal, Playwright MCP, Langfuse, Weaviate, Spec-Driven Development (SDD), Self-Healing Workflows, Automated Merge Request Validation

Cloud & DevOps: Docker, Kubernetes, GitLab CI

AI Frameworks — Hands-on Exploration: OpenClaw, Archon, LangChain, LangGraph

EDUCATION

Bachelor of Engineering — Computer Programming

Siberian State University of Telecommunications and Information Science | 2010–2014

LANGUAGES

Russian — Native | English — B2