ALEKSEI SMIRNOV

SOFTWARE ENGINEER | FULL-STACK DEVELOPER | AI AUTOMATION ENGINEER

OBJECTIVES

Full-stack engineer focused on building scalable React and Next.js applications, AI-assisted features with Python, and data-driven user experiences. Experienced with TypeScript, Node.js, NestJS, PHP, Wordpress, APIs, and realtime workflows, with a strong interest in frontend architecture, performance, and maintainable product systems.

WORK EXPERIENCE

INDEPENDENT SOFTWARE & AI DEVELOPER (RESEARCH PROJECTS)

Los Angeles, CA — 2025 – 2026

- Developed full-stack web applications and backend systems using React, Next.js, Node.js, NestJS, Express, and PostgreSQL, focusing on modular architecture, API design, and database-driven product systems.
- Built API-driven platforms including real-time dashboards and automation workflows integrating external services, asynchronous processing, and structured data pipelines.
- Designed and implemented e-commerce and marketplace systems with authentication, transactional workflows, and scalable backend architectures.
- Developed AI-assisted tools and automation systems using Python, OpenAI APIs, and Hugging Face models for NLP processing, semantic analysis, and workflow automation.
- Designed and experimented with reinforcement learning and simulation-based AI systems, including RTS-style environments (StarCraft API) for modeling decision-making, strategy optimization, and agent behavior.
- Worked with Docker-based development environments and deployment workflows, improving system reliability through environment isolation, fault-tolerant design, and iterative testing practices.

FULL-STACK DEVELOPER (FREELANCE PROJECTS)

Los Angeles, CA — 2023 – 2024

- Built and maintained production web platforms for content and commerce clients, including high-traffic news publishing and e-commerce systems with ongoing development, optimization, and lifecycle support.
- Developed and heavily customized a WordPress-based news publishing platform, including custom PHP engine modification, plugin development, SEO architecture optimization, performance tuning, and content delivery improvements for traffic-driven growth.
- Implemented e-commerce systems using OpenCart and WooCommerce, including product catalog architecture, database-driven inventory logic, and checkout flow customization for large product datasets.
- Designed and deployed security-conscious e-commerce solutions with environment hardening, access control configuration, and production deployment maintenance workflows.
- Delivered end-to-end technical solutions spanning CMS engineering, system debugging, feature development, and long-term production support across multiple client projects.

PERSONAL DETAILS

Northridge, CA 91325

hello@asmirnoff.com

PROFESSIONAL SKILLS

Operating Systems:
Windows, Unix/Linux

Programming Languages:
Python, JavaScript (React, Node.js, Redux), PHP, Java, C#, Visual Basic

Web & App Development:
React, Redux, Node.js, Express, HTML5, CSS3, Bootstrap, REST APIs, WordPress, Woocommerce, Google Analytics, etc.

Software & Tools:
Visual Studio, GitHub, VMware, Visio, Photoshop, MS Office

Databases:
SQL Server, mySQL, PostgreSQL, Mongo DB, etc

AI / ML / Game AI:
PyTorch, TensorFlow, Scikit-Learn, Hugging Face, OpenAI API,

Cloud & DevOps:
AWS (SageMaker, EC2, Lambda), Azure ML, GCP AI, Docker, CI/CD, GitHub Actions

Data & Analytics:
Pandas, NumPy, Matplotlib, Google Analytics, SEO tools

Project Management:
PMBoK, PMI, MS Project, Primavera, Redmine, JIRA, YouTrack

Multimedia apps:
Adobe: Photoshop, Premiere, Audition, etc.

REPRESENTATIVE OFFICE MANAGER — "KAZTRANSOIL" JSC

Russia, Moscow — 2021 – 2022

Oversaw regional operations, aligning with corporate objectives and ensuring legal compliance.

Led SAP system integration, improving data management and reporting processes.

Achieved 25% tariff increase and 40% net profit growth through analytics-based optimization.

EDUCATION & CERTIFICATIONS

MASTER'S DEGREE IN RADIOELECTRONIC SYSTEMS

Bauman Moscow State Technical University

SOFTWARE ENGINEER

PerScholas

PROJECTS

RE E-Commerce / Marketplace System Evolution (2025–2026) — MERN → Next.js / NestJS / PostgreSQL / Prisma / JWT

- Initially developed a full-stack e-commerce platform using MongoDB, Express, React, and Node.js, Material UI, implementing core commerce functionality.
- Re-architected the system into a modular marketplace platform using Next.js and NestJS, introducing SSR frontend architecture and improved backend separation. Migrated the data layer from MongoDB to PostgreSQL with Prisma ORM, redesigning the schema for relational consistency, transactional integrity, and query performance.
- Redesigned API layer with structured NestJS backend services, implementing authentication, product management, and database-driven workflows. Improved system scalability and maintainability through architectural refactoring, separation of concerns, and modular backend/frontend boundaries. Currently being containerized with Docker and prepared for deployment workflows.

High-Traffic Mass Media Platform (2023-2024) — WordPress, PHP, MySQL

- Developed and extensively customized PHP-code of a high-traffic news publishing platform based on WordPress, including backend architecture modifications and CMS workflow optimization for editors, readers, admins. Custom Theme.
- Built custom WordPress plugins and extended core CMS functionality to support editorial workflows, dynamic content delivery, and feature-specific publishing logic. SEO architecture improvements, performance optimization, content delivery enhancements to improve indexing, load speed, updates, upgrades and organic traffic growth.

Experimental Game AI Systems (2022-2026) — Python, C++, Reinforcement Learning, OpenAI API, FastAPI, BWAPI

- Built mini-game prototypes and trained experimental AI agents to learn gameplay strategies through reinforcement learning and reward-based optimization.
- Applied the same approach to RTS-style environments, including BWAPI/StarCraft-based fork simulations, to study decision-making and reward policies.

Security:
Network monitoring, virtualization, ethical hacking basics, software vulnerability analysis

LANGUAGES

English
Fluent

Russian
Native

Kazakh
Intermediate: speaking, reading

ADDITIONAL COMPETENCIES

- Web Design, UX/UI, and Digital Marketing Analytics
- Project Leadership and Cross-Team Communication
- Technical Writing and Documentation
- Cybersecurity and Virtualization
- Continuous Learning in Advanced AI & LLM Architectures