

# Andrei Orlov

## Senior Full Stack Engineer and Tech Lead

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**Work Status:** EU Resident with valid permit for remote work with international companies. No visa sponsorship or relocation assistance required for remote contracts (B2B/Contractor).

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Results-driven Technical Lead and Senior Full Stack Engineer with over 15 years of experience designing and scaling high-performance web ecosystems. Expert in architectural modernization, specializing in migrating legacy monoliths to service-oriented architectures using Laravel, Node.js, and Vue 3. Proven track record of quadrupling release velocity while maintaining a zero-bug production environment and 100% system stability. I combine deep hands-on expertise in PHP 8.x and TypeScript with strategic leadership in developer mentorship, high-quality PR culture, and technical roadmapping. Empowered by modern AI integration workflows, I utilize Generative AI, Google Gemini, and Machine Learning for advanced problem-solving, code generation, and strategic data analysis.

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## Core Competencies & Technical Skills

- **Languages & Frameworks:** PHP 8.x, Laravel (10/11/12), TypeScript, Node.js, NestJS, Vue.js 3 (Composition API), Pinia, Tailwind.
  - **Architecture & DevOps:** AWS (EC2, S3, RDS), Kubernetes, Docker, CI/CD (GitHub Actions), Nginx, Microservices Architecture.
  - **AI, Data & Analytics:** Generative AI, Google Gemini, Machine Learning, Applied Data Analysis, D3.js Visualization.
  - **Infrastructure & Observability:** DataDog, Grafana, Sentry, Elasticsearch, Redis, SIEM Integration.
  - **Tools & Security:** JetBrains IDE, Cursor, Claude Code CLI, Vulnerability/CVE Remediation.
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## Professional Experience

**Threecolts** | Remote *Tech Lead and Senior Full Stack Engineer* | 10/2021 – 01/2026

- **Leadership & Mentorship:** Led cross-functional engineering squads, directed technical roadmaps, and managed a micro-team of up to 3 developers. Conducted 30+ technical interviews, resulting in 5 successful hires.
- **System Reliability:** Built an observability stack using DataDog, Grafana, Sentry, and Slack alerts, which cut MTTR and achieved 99.9% system availability. Eliminated critical production regressions over a four-year period by implementing strict testing standards.
- **DevOps & Deployment:** Quadrupled release velocity (from bi-weekly to twice per week) by overhauling the CI/CD pipeline via GitHub Actions while maintaining 100% system stability.
- **Security & Compliance:** Orchestrated the remediation of ~20 CVEs affecting Laravel and Node.js, maintaining a 100% security record with zero infrastructure compromises.
- **Product Engineering:** Spearheaded the PRD process for 5 high-impact features, cutting development rework by ~20% through exhaustive requirement mapping. Designed and launched a Multi-User Architecture without breaking backward compatibility.

- **Key Projects Built from Scratch:** Seller365 global extension (Vue 3, Laravel 12, Kubernetes) and DataSpark 2 platform (Vue 3, Laravel 11, AWS).

### Visual Magic Productions | Remote *Senior PHP Expert & Migration Architect* | 11/2018 – 10/2021

- **Architectural Migration:** Worked with a 5-person team to break down a legacy PHP monolith into a service-oriented architecture using Laravel, achieving zero downtime during the transition.
- **Frontend Modernization:** Led the migration from a jQuery-based frontend to a modern Vue.js architecture, reducing page load times by 10-40% via headless optimization.
- **Performance Engineering:** Rebuilt high-volume data scrapers running in Docker containers by refining MySQL storage logic and improving proxy rotation strategies. Standardized the codebase to PSR-2 standards.

### Upwork Platform | Remote *Freelance Technical Lead & Software Engineer* | 02/2016 – 10/2018

- Successfully managed nearly 30 concurrent international projects, maintaining a 5.0-star client rating for quality and communication.
- Designed an Advanced Real Estate CRM ecosystem (Laravel, AWS) featuring an omnichannel communication layer integrated with VoIP (Twilio), SMS, and SendGrid.
- Directed the end-to-end migration of the Siloam Health corporate platform from a legacy WordPress setup to a secure, Laravel-based OctoberCMS architecture to mitigate vulnerabilities.

### Earlier Experience Highlights (03/2011 – 10/2016)

- **Data Visualization Engineer (IP-TV Provider):** Engineered a high-performance administration dashboard utilizing D3.js, Symfony 3, and Google Maps API to visualize global, high-velocity streaming metrics bridging C++ data structures.
- **Lead PHP Developer & System Architect (LLC BITS):** Managed the full technical roadmap and development of cross-border e-commerce and CRM platforms (CientoBox) utilizing Symfony, Postgres/MySQL, AWS, and early CI/CD integrations via GitHub API.

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## Education & Professional Certifications

### Degrees

- **Engineer (Specialist Degree, 5-year), Radio Engineering** | Ryazan State Radio Engineering University
  - *Honors:* Graduated Cum Laude with a GPA of 4.95/5.0.

### Selected Certifications

- **Google AI Professional Certificate** | Google via Coursera (Feb 2026)
  - *Focus:* Generative AI, Machine Learning, Data Analysis, and App Building.
- **Accelerate Your Job Search with AI** | Google via Coursera (Mar 2026)
  - *Focus:* Advanced utilization of AI tools including Google Gemini, NotebookLM, and AI Enablement.
- **Introduction to DevOps** | IBM via Coursera (Mar 2026)
  - *Focus:* CI/CD pipelines, resilient microservices, and Infrastructure as Code.
- **Mastering NestJS** | Packt via Coursera (Mar 2026)
  - *Focus:* Scalable back-end architecture, RESTful APIs, and strict TypeScript integration.
- **Machine Learning and Data Analysis** | MIPT & Yandex via Coursera (Feb 2018)
  - *Focus:* Applied ML, Data Preprocessing, Unsupervised Learning, and Linear Algebra.