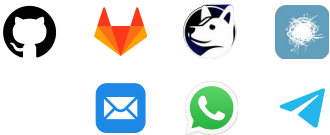# Rakovchen Alexander
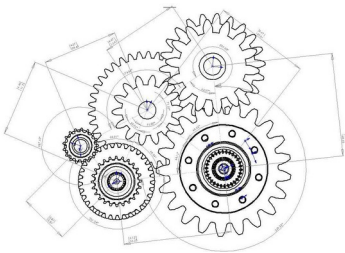## Tech Lead / Fullstack Web Developer

Experienced web developer with strong expertise in both frontend and backend. Specializing in building complex web applications from scratch, including system architecture design, technology stack selection, and process automation. Proven experience in leading development teams, implementing DevOps practices, and configuring CI/CD pipelines. Able to oversee projects end-to-end — from concept and planning to stable production and scaling. Focused on quality, stability, and product growth.

Category	Skills
Languages & Technologies	JavaScript (ES6+, VanillaJS), TypeScript, Python, SQL
Frontend	React (React Router, TailwindCSS), Vue 3 (Vuetify), PWA (Workbox)
Backend & API	Django, Django REST Framework, FastAPI (Swagger/OpenAPI), Node.js, Express, Koa, PostgreSQL (SQLAlchemy), Telegram API
Testing	Pytest, Jest
DevOps & Infrastructure	Docker, Docker Compose, GitHub Actions, GitLab CI/CD, GitFlow, Linux, SSH
Monitoring & Analytics	Prometheus, Grafana, logging & metrics collection
Integrations & External Services	Integration of external APIs and services (including Smart Engines, OCR.space)
Architecture & Leadership	System design, architectural decision-making, team coordination, mentoring, code review, documentation

Key Achievements

Designed and deployed scalable web applications to production.

Led a development team (2–7 engineers), implemented code review and CI/CD processes.

Optimized workflows: automated deployment, reduced integration and testing time.

Delivered complex integrations (APIs, OCR services, external platforms).

Professional Experience

Federal Institute of Industrial Property (FIPS)

📅 April 2024 – Present

💼 **Fullstack Developer**

Frontend development (Service Constructor for the Unified Public Services Portal):
- Optimized the service creation process by developing and implementing structured development guidelines.
- Achieved a record approval time for a service at editorial control (2 iterations and 40 minutes vs. the standard 7 iterations over several days).
- Worked with Apache Velocity templates to generate XML/PDF, validated data against XSD (ST96).

Backend development:
- Automated key processes previously performed manually, reducing staff workload and eliminating data processing errors.
- Developed integration modules and parsers for handling heterogeneous data formats.
- Maintained and optimized databases (PostgreSQL in Docker).

Cross-project collaboration:
- Conducted technical code audits for external developers, providing recommendations for performance and security optimization.
- Authored technical articles and guidelines, raising the knowledge level of colleagues.
- Quickly became a key specialist in process automation.

This experience strengthened my skills in full-scale system design, data management, and coordination of complex technical solutions in the public sector. Gained valuable expertise in working with large datasets, ensuring their security and integrity, and automating information processing in compliance with government standards.

Tarasoft-A LLC

📅 February 2024 – Present

💼 **Technical Team Lead**

Served as the architect of the client-side application since inception, progressing from sole developer to team lead. Currently managing a team of engineers.

Development leadership:
- Designed and implemented the core architecture of the client application.
- Responsible for critical system components.
- Ensured technical quality of key modules.

Team building & development:
- Managed full recruitment cycle, including candidate evaluation methodology.
- Created an onboarding system for new hires via a sprint-based probation model.
- Provided individual mentorship and built effective working groups.

Development management:
- Introduced code refactoring processes and new feature development.
- Ensured quality control through regular code reviews.
- Developed and maintained technical standards for the project.

Product release preparation:
- Coordinated the team during final development stages.
- Personally oversaw key application modules.

- Ensured stability of mission-critical system parts.

Coordinate technical decisions across frontend, backend, and infrastructure. Contribute to strategic product planning, foster team culture, and develop a strong engineering community within the project.

Dialas – Indie Text Game Development Team

📅 May 2023 – August 2023

💼 **Fullstack Developer**

Participated in development and production release of *Crossword 4D*, a web application designed for blind and visually impaired users. Acted as the sole developer, managing the full development cycle, collaborating with the project manager and tester.

- Developed the client application in compliance with Web Accessibility standards.
- Ensured feature accessibility through word intersections and audio content.
- Maintained accessibility compliance throughout all stages.

✦ The application was successfully released on July 8, 2023, and an article about its launch was published on the Dialas website. Ongoing technical support ensures stable product performance.

NTO Sphere LLC

📅 June 2015 – March 2024

💼 **Engineer-Developer**

Over 9 years of experience developing Interactive Electronic Technical Manuals (IETM) in compliance with the ASD S1000D standard, used in aviation and other high-tech industries.

Data development & structuring:

Created SPA applications for IETM using Seamatica and XML.

Designed and automated data structures to ensure consistency and reuse.

Database work:

Developed a modular data storage system in PostgreSQL enabling dynamic document generation.

Optimization & testing:

Performed testing and verification to ensure compliance with industry standards.

This experience gave me a deep understanding of data processing, SPA architecture, and process automation, which I successfully apply in web development. Also coordinated thematic subgroups, assigned tasks, and ensured quality control.

Education

Additional Professional Program (Part-time)
>
> 2021 – 2023
>
> Netology
>
> **Specialization: Fullstack Developer (Python)**

Higher Education (Full-time)
>
> 2008 – 2013
>
> M.V. Lomonosov Moscow State University of Fine Chemical Technologies
>
> **Specialization: Metrology Engineer**

About Me

I am a web developer with strong expertise in frontend, backend, and application architecture. I build scalable solutions, automate processes, and help teams work more efficiently.

Throughout my career, I have led development projects, optimized complex systems, mentored developers, and implemented best practices. I focus on code quality, testing, and performance, with the ability to find creative solutions under tight deadlines and design architectures that handle heavy loads.

✦ I have a keen interest in AI and its integration into software development. For example, I configured the deployment of Meta's LLaMA model and adapted it for a Telegram bot, gaining deeper insights into neural networks and their practical applications.

→ I am always open to new challenges, technologies, and ideas that help advance projects and teams. My focus is on quality, stability, and product growth.