

Romanov Aleksey | Senior Frontend / Full-Stack Engineer

Portfolio: <https://alexeyromanov.com>

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Professional Profile

Senior Full-Stack Engineer focused on modernizing complex business systems and building scalable application platforms. Strong background in React, TypeScript, frontend architecture, UI systems, and enterprise workflows, with hands-on experience across Python, Go, AWS, databases, distributed systems, and system design.

I work best on complex products where engineering requires understanding existing workflows, simplifying legacy behavior, and turning business logic into reliable, maintainable software.

Career Summary

Orchestr8 — Full-Stack / Platform Engineer

May 2025 – Present

Working on O8 Enterprise Suite and Supplai / O8 planning-engine infrastructure for enterprise supply-chain planning platforms used by global clients including Shell, BT, 3M, and others.

Own and modernize frontend architecture for a legacy VB.NET-based enterprise system, migrating workflows into a modern React, TypeScript, Python, and AWS platform. Contribute across reusable UI systems, enterprise data grids, D3-based analytics, permissions, user management, backend API design, AWS-integrated services, and platform-wide error handling.

Expanded into platform and infrastructure work on a distributed inventory planning engine, contributing to Python/Rust simulation logic, cloud orchestration, scalable execution pipelines, dynamic compute scaling, worker reliability, recovery behavior, and infrastructure modernization.

Tech: React, TypeScript, Python, Rust, AWS, SQL Server, DynamoDB, OpenSearch, AG Grid, D3

JenyClean — Full-Stack Engineer

May 2025 – Sep 2025

Designed and built a custom CRM and internal operations platform for a cleaning company, covering customer management, quotes, bookings, scheduling, recurring jobs, employee assignments, real-time SMS communication, payments, payroll, expenses, tips, and financial reporting.

Owned the system end to end, including product workflows, database design, backend APIs, frontend implementation, role-based access control, and RingCentral integration.

Tech: React, TypeScript, Go, PostgreSQL, AWS, RingCentral

Contract Projects — Frontend Engineer

Apr 2024 – May 2025

Delivered fixed-scope frontend projects focused on advanced UI systems, browser tooling, debugging interfaces, session replay, operational platforms, and security testing.

Built a session replay and debugging interface for recorded HTML application states, including DOM change highlighting, HTML search, timeline navigation, DevTools-style panels, and CSS inspection logic with inheritance and computed styles.

Worked on a content-protection platform using Solid and TypeScript, including UI redesign, legacy code refactoring, reusable components, and feature development. Also conducted SaaS security testing and responsibly reported a high-impact authorization vulnerability related to enterprise feature access.

Tech: React, SolidJS, TypeScript, Browser Tooling, Security Testing

King's Tire — Frontend Engineer

Feb 2024 – Apr 2024

Built the frontend for a custom internal CRM used in truck and trailer service operations. Implemented workflows for service scheduling, customer and vehicle records, repair requests, warehouse operations, dashboards, and technician task visibility.

Worked with the client, project manager, and backend developer to translate operational requirements into React application logic and dashboard interfaces.

Tech: React, TypeScript

ErmakDom — Full-Stack Engineer

May 2023 – Feb 2024

Designed and built a CRM and construction operations platform to digitize paper-based workflows, centralize project records, and improve process control for field teams and technical supervisors.

Implemented database structure, backend APIs, frontend workflows, role-based access, employee management, project tracking, revision reporting, PDF generation, document management, approvals, and archival workflows.

Tech: React Native, TypeScript, Go, PostgreSQL, Redis

Verdeco — Frontend Developer

Apr 2021 – Oct 2022

Worked on modernization of a logistics and transport CRM used across operations, accounting, financial workflows, tax forms, notifications, statistics, reference data, and multilingual interfaces.

Progressed from bug fixes and legacy maintenance to building reusable React components, Redux state management, form workflows, localization support, performance improvements, code reviews, and frontend interview support.

Tech: React, TypeScript, Redux

Projects

Collaborative Whiteboard

A real-time collaborative whiteboard allowing teams to collaborate on infinite canvases with live updates and rich editing interactions.

GitHub: <https://github.com/procellis33/collaboration-whiteboard>

Showcase: https://youtu.be/43_2mJxDjWY

Education

Faculty of Information Technology, CTU Prague (2022 – 2026)

1st Slavic Gymnasium, Prague — Maturita (2018 – 2022)