Andrey Zadvornov

Solution Architect

Web platforms · Integrations · Applied AI

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Solution Architect connecting product requirements to service boundaries, data ownership and working releases. Hands-on experience with web platforms, integrations and AI services, including access control, background processing and failure recovery. I direct AI-assisted development through scoped tasks, explicit contracts and acceptance checks. 15+ years across digital products and design, including international commercial projects.

Architecture practice

Independent and collaborative product projects
2026 — Present

NAS / RUSTNAS Multi-tenant CRM and website platform

- Developed a platform connecting CMS, applications, recruiting and operations. Worked on an incremental NestJS to Rust/Axum/SQLx migration against a shared PostgreSQL schema, with tenant-scoped access, RBAC, transactions and audit.
- Delivered production changes by reconciling source with running artifacts and separating site, admin and API builds. Verified site-variant switching through the admin UI and persisted database state; prepared backups and rollback procedures.

RAG / Neurooperator AI assistant with memory and evidence

- Developed a RAG layer around an existing Go backend, separating business facts, instructions and conversation memory. Scoped context by tenant, subject and conversation, with source provenance and temporal validity.
- Established regression and negative checks for prices, conditions, memory, isolation, stop handling and PostgreSQL reply publication. Connected Telegram to the shared core; introduced new mechanisms through feature flags and separate acceptance.

HexaGram / AIFARM Operator console and AI workflow MVP

- Separated event ingestion, LLM generation and outbound delivery. Used PostgreSQL leases and SKIP LOCKED for durable background jobs with restart recovery.
- Bound approval to the exact draft and source revisions. Added an outbox, permission rechecks and an unknown-outcome state to prevent blind retries of uncertain sends.

SCEN / DEBUT Collaborative applications platform

- Worked on application workflows with idempotency, a transactional outbox and background media and notification jobs. Developed release controls using pinned SHAs, serialized execution, limited permissions and fallback after failed activation.

Previous professional experience

Independent Reserve | Jul 2023 — Oct 2025

Senior Web Developer / Tech Lead

Crypto exchange · Australia · Remote

- Worked on a WordPress and React headless blog and its exchange-platform integrations using REST APIs, asynchronous webhooks and OpenAPI contracts.
- Built plugins for crypto payment flows and real-time exchange data. Created shared React/Gutenberg components and improved Core Web Vitals and technical SEO.

Ministry of Science and Higher Education of Russia | Sep 2021 — Mar 2022

Senior Frontend Developer

Technoprom Forum digital platform · Moscow

- Produced migration architecture documentation: C4, sequence diagrams and BPMN as a technical contract. Worked on the move from 1C-Bitrix to React and Node.js.
- Implemented WebSocket chat, polls and notifications, a Flutter application for iOS and Android, and CI/CD delivery with rollback.

Roku Inc. | Mar 2016 — May 2020

Frontend Developer → Senior Frontend Developer

Streaming platform · USA · Remote

- Developed Roku Blog on WordPress Multisite, with a shared codebase, a plugin strategy and centralized taxonomies across content sites.
- Built reusable components, improved loading performance and SEO, and integrated A/B testing and analytics for content decisions.

Core capabilities

Architecture: Service and data boundaries, API contracts, C4, BPMN, ADRs; multitenancy, RBAC, idempotency, outbox and recovery.

Engineering: TypeScript, React, Next.js, Node.js/NestJS; Rust/Axum/SQLx, Go, PHP/WordPress; PostgreSQL, Redis.

AI and operations: RAG, conversation memory, provenance, grounding, LLM APIs; Docker, Linux, Nginx, systemd, CI/CD; scoped AI-agent tasks and acceptance checks.

Additional practice

RustPress: R&D CMS using Rust, transaction-scoped tenant context and PostgreSQL RLS. ME55: Rust/libp2p P2P messaging prototype with a durable queue and commit ACK. KDX: architecture research and local prototypes for content, permissions and browser/native capabilities.

Languages: Russian — native; English — C1.

Education: BSc, Computer Science.