

Denis Orlov

Full-Stack Engineering Lead · Remote B2B · Part-time or full-time

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Summary

Full-stack engineering lead covering React applications, Node.js services, data and AWS delivery.

Owns technical delivery while leading the engineers working on it.

"Denis is an incredibly talented developer, who's been leading our platform development and been a big part of our success." — Samuel Huber, founder of Landvault

Experience

FreakoutAI Mar 2025 – present

CTO & Founder

United Kingdom · Remote

Built the product end to end, AI 3D generation and immersive showrooms for e-commerce: the architecture, the interface, and everything underneath both.

- Company award: Digital StartUp of the Year (South West), UK StartUp Awards 2026, from 2,000+ entrants across 22 categories.
- Built the agent stack the product runs on: a supervisor that routes model calls, a guardrail classifier, and a runtime intent fallback.
- Own the generation pipeline end to end, from text-to-3D through retexture, remesh and rigging.
- Run the production and staging platform on AWS: containerised services, generation workers under a global concurrency ceiling, and queues with dead-letter handling.
- Built the paid side of the product: subscription plans, credit packs, entitlements, and the ledger underneath them.
- Implemented Creative Studio image provenance and documented the remaining EU AI Act readiness gaps.
- Developed a Three.js WebXR runtime with headset entry, controller input, teleportation, collision and safe spawn.
- Live on the Shopify App Store since January 2026.

Infinite Reality (formerly Landvault)

Dec 2023 – Mar 2025

Principal Engineer

Contract · London · Remote

Led architecture and front-end development for the platform, across 15+ AI and Web3 projects.

- Owned the release pipeline and platform stability.
- Set the Next.js architecture and the conventions the codebase was held to.
- Stayed in the Principal role through Infinite Reality's US\$450M all-stock acquisition of Landvault.

Landvault

July 2022 – Dec 2023

Senior Frontend Developer

Contract · London · Remote

Front-end delivery on the platform as the product moved from advertising into immersive 3D and Web3 experiences.

- Built and owned the shared component library the rest of the team built on.
- Led delivery of browser-based metaverse projects.
- *"His contributions to enhancing our web platforms load times were critical in achieving perfect benchmarks, demonstrating his ability to optimize performance at the highest level."* — Mohammad Adam, Senior Data Engineer, same team

Admix (merged into Landvault)

Dec 2021 – July 2022

Senior Frontend Developer

Contract · London · Remote

Front-end for the advertising platform, on the admin and internal side.

- Owned the admin surface and the internal tooling the rest of the team worked in.
- Built the platform's Web3 integrations.
- Carried the work through the merger into Landvault.

Lead Full Stack Developer

Contract · San Francisco · Remote

Led development of telehealth tools through the pandemic, including a digital vaccination passport and regional registration systems.

- Owned technical delivery and deployments across a fully remote team.
- Built to HIPAA requirements for handling patient data.
- Established the coding standards and the automated test suite, and mentored the developers working to them.
- Ran hiring and onboarding on the engineering side.

Universal Technical Systems

Dec 2015 – Nov 2018

Director of Front-End Engineering

Full-time · Remote

Led front-end engineering for national-scale vehicle inspection and diagnostics platforms across Russia and the CIS.

- Built the inspection system adopted by 500+ service centres.
- Integrated the interface with diagnostic hardware.
- Delivered a document and payment management system used in 200+ facilities.
- Set the front-end architecture the team worked to.

Freelance

July 2013 – Dec 2018

Full-Stack Engineer

Self-employed · Remote

Independent practice, several clients at a time, alongside an in-house engineering lead role.

- Delivered 50+ full-cycle projects, from first commit to production.
- Built sites for World of Tanks, Sokolov Jewelry, Moscow State University and Russian Railways.
- Built regional medical appointment booking platforms used across Russia.
- Modernised legacy codebases and kept them running.

Skills

Core: TypeScript, JavaScript, React, Next.js App Router, SSR, Node.js, Express

Backend & data: REST, GraphQL, Prisma, MongoDB, PostgreSQL, Redis, WebSockets

Cloud & delivery: AWS ECS Fargate, ALB, CloudFront, S3, Route 53, ACM, WAF, SES, SQS, EventBridge, CloudWatch, ECR, Parameter Store, Docker, Turborepo, Vercel, GitHub Actions

Architecture: Design systems, component libraries, release pipelines, front-end performance, technical leadership, mentoring

Front-end: Tailwind CSS, Material UI, HeroUI, styled-components, Jotai, SWR, Framer Motion, PWA

AI: LLM integration, agent orchestration, supervisor and guardrail patterns, content provenance, C2PA, EU AI Act readiness

Commerce: Stripe, Shopify App and Billing

3D, XR & Web3: Three.js, WebGL, React Three Fiber, Unity, WebXR, React Three XR, VR headset input, controller input, viem, wagmi, Sign-In with Ethereum

Also: Python, Figma

Education

Adyghe State University, Specialist Diploma in Applied Mathematics and Informatics — five-year programme – Maykop, Russia

2010 – 2015

Languages

English — professional working proficiency, used daily at work. Russian — native.