

# Denis Orlov

Full-Stack Lead · CTO & Founder · Remote contractor (B2B)

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## Summary

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Writes code and leads the people writing it. Front-end-oriented full-stack that grew into owning the architecture and the infrastructure underneath it, in React, TypeScript and Node, at Principal and Lead level.

At FreakoutAI the architecture, the AWS estate it runs on and much of the production code are mine.

*"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

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FreakoutAI

Mar 2025 – present

### CTO & Founder

United Kingdom · Remote

Built the product end to end: 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.
- Introduced document-driven development, backed by automated checks, and wrote the standards the repositories run on.
- 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: containers, edge, storage, queues, mail, monitoring and secrets.
- Built the paid side of the product: subscription plans, credit packs, entitlements, and the ledger underneath them.
- Nineteen locales, two of them right to left, which meant mirroring the layout rather than translating strings into a left-to-right frame.
- Brought the codebase in line with the EU AI Act, down to provenance on every generated asset.
- 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.

- Mentored a team of 10 engineers, and set the code standards and the review process they worked to.
- Owned the release pipeline and platform stability.
- Set the Next.js architecture and the conventions the codebase was held to.
- *"His deep understanding of modern web technologies, performance optimization, and best practices made a significant impact on our projects."* — Marcin Gierlak, VP of AI & Engineering, direct manager

Landvault

July 2022 – Dec 2023

### Senior Frontend Developer

Full-time · 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 on the platform's immersive projects.
- *"...his ability to take complex UI challenges and turn them into elegant, well-thought-out solutions."* — Mo Hussain, Product Leader, direct manager
- *"His contributions to enhancing our web platforms load times were critical in achieving perfect benchmarks."* — Mohammad Adam, Senior Data Engineer, same team

Admix (merged into Landvault)

Dec 2021 – July 2022

### Senior Frontend Developer

Full-time · 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.

TrueCare24

Dec 2018 – July 2022

### 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

Part-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 a part-time 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.
- Ran the design side as well: client interviews, wireframes, high-fidelity mockups, then the build.

## Skills

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

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

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

**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

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

**Commerce:** Stripe, Shopify App and Billing

**3D & Web3:** Three.js, WebGL, Unity, viem, wagmi, Sign-In with Ethereum

**Also:** Python, Figma

## Education

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

2010 – 2015

## Languages

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