

OLEG PROSKURIN

Senior Node.js Backend Engineer & Tech Lead

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SUMMARY

Senior Node.js / TypeScript backend engineer and Tech Lead with 9 years of production experience, currently leading the backend and AI generation layer of PrimeUI (primeui.com, launched Feb 2026): an AI-native code generation platform for professional websites that ships customer-owned Next.js projects. Designed and operated consumer-scale backends on PostgreSQL and the Sanity-based Tipico US platform (75M requests/month, 122 CMS users). Comfortable owning services end-to-end: REST API design, database modeling and optimization, performance tuning, third-party integrations, and AI/LLM orchestration as a first-class backend concern.

SKILLS

Backend & APIs: TypeScript, Node.js, REST APIs, WebSockets, GraphQL. PostgreSQL, Drizzle ORM, SQL design and query optimization. Schema validation, retry/recovery, streaming responses. Public-API design for cross-host integrations (MCP server, CLI)

AI Engineering: LLM orchestration and guardrails on the backend: multi-model routing (Claude / GPT / Gemini), context engineering, prompt caching (73% Gemini context-cache hit rate), schema validation, retry recovery. Embeddings-based retrieval. MCP: custom server development; cross-host agent integration

Commerce & CMS: Shopify, Shopify Hydrogen, Crystallize, Stripe. Sanity, Storyblok, Contentful, Payload. Content modeling, multi-environment publishing, large-scale migrations

Infrastructure & Delivery: Docker, docker-compose. Vercel, Cloudflare, Serverless & Edge functions. CI/CD pipelines, NPM package publishing. Web performance: Core Web Vitals, Lighthouse, WCAG

Full-Stack adjacent: React, Next.js (App Router, SSR/SSG/ISR), TanStack Start/Router, Vite, Tailwind, shadcn-style design systems

EXPERIENCE

PixelPoint Ltd.

France · Remote

Tech Lead & Senior Full-Stack Engineer, PrimeUI

Feb 2025 – Present

PrimeUI (primeui.com, launched Feb 2026) is an AI-native platform for generating production-ready websites, spanning Studio web app, public API, MCP server, CLI, and code-export pipeline. Sole full-time engineer on the project, owning roughly 70% of platform architecture across all surfaces.

- **Architected the AI generation layer on the Node.js backend:** multi-model orchestration via Mastra + Vercel AI SDK (10 agents, 17 workflows) with per-task routing across Claude, GPT, and Gemini; embeddings-based component retrieval over 1,555 chunks (OpenAI `text-embedding-3-small`) with three-tier fallback from exact key to family bucket to semantic search; prompt caching reaching 73% Gemini context-cache hit rate.
- **Public API, code-export pipeline, and CLI:** generates a production-ready Next.js project repo in ~45 seconds, ~1.5 minutes end-to-end from UI Export to a running local project. The generated codebase is customer-owned, shipped as a standard Next.js project, pre-configured for 8 selectable AI coding agents.
- **Built and published @primeui.com/mcp on NPM:** 25 tools that let any external codebase connect to PrimeUI from inside AI coding environments, with cross-host compatibility verified across 6 major coding agents (Claude Code, Cursor, Codex, others).
- **Owned the Node.js server runtime end-to-end,** including WebSocket-based streaming of model responses adapted to UI rendering, schema validation, retry and recovery flows for LLM calls, and third-party API integrations.
- **Drove team AI-tooling adoption:** Claude Code from project start, team transition to Codex ahead of public release. Open-sourced [codex-bee](#) and [epic-loop](#) as spinoffs.

FocusReactive

London · Remote

International web consultancy for clients in the US, UK, Europe, and Australia.

Tech Lead & Senior Software Engineer

May 2019 – Feb 2025 (5 yrs 10 mos)

- **Architected the Tipico US backend on Sanity Headless CMS at consumer scale:** 75M requests/month, 122 CMS users, 98 document types, 165K stored documents. 5 publishing environments, 3 datasets, white-label architecture for core + state teams.
- **Built a Claude-based content automation pipeline:** JSON translation flow for 190 country-specific Storyblok pages, integrated into publishing and saving ~1 month of manual work.

- **Led migration of 15 client projects to Headless CMS and commerce platforms** (Sanity, Storyblok, Contentful, Payload, Crystallize, Shopify, Hydrogen), restructuring content models and cutting update cycles from weeks to days.
- **Designed and built CMS-KIT**, an open-source Headless CMS starter and component library used across 15 client projects, cutting kickoff from days to hours and accelerating development by ~30%.
- **Led technical hiring and team development**: designed an assessment mirroring real working conditions, ran 30 interviews leading to 8 hires, mentored new engineers; drove team adoption of Claude.ai for research, content, and codebase analysis from 2024 onwards.

GitNation

Remote

Built publishing flow via Slack API and a reusable web framework for conference websites; migrated GitNation conferences to Headless CMS.

Senior Software Engineer (Part-time, concurrent)

May 2019 – Feb 2025

Osome

Singapore

Built fuzzy-logic search system and advanced UI animations for the corporate-services platform.

Frontend Developer

Jun 2018 – May 2019

Skipp

Moscow

B2B marketplace for Skolkovo Innovation Center (100 companies); GraphQL subscriptions for real-time chat.

JavaScript Engineer

Nov 2017 – Jun 2018

PORTFOLIO

[PrimeUI](#), [MarketFinance](#), [Tipico-Platform](#), [IWM membership](#), [NotSoApp](#), [CasinoReviews](#), [VegasSlotsOnLine](#), [Caleffy](#), [Hadhat](#), [Porchlight](#), [Gitnation](#), [FocusReactive blog](#), [Skolkovo R&D Market](#), [Reverse Health](#), [Firsty](#)

OPEN SOURCE & WRITING

- **Storybook**: contributor and steering team member during the 2016–2017 community revival; addon maintainer (storybook-addon-console, **7M NPM downloads**; storybook-addon-material-ui, **18K weekly**).
- **AI developer tooling**: [codex-bee](#), a wrapper for long-running Codex sessions; [epic-loop](#), a Codex skill solving context degradation in long autonomous coding sessions via techlead/engineer role separation and durable epic state.
- **Technical writing**: articles on frontend, Headless CMS, and developer tooling at [FocusReactive blog](#) and [Dev.to](#).

EDUCATION

Master in Engineering, Faculty of Electronic Engineering, Moscow Power Engineering University ([MPEI](#)), Russia

LANGUAGES

English C1 · Russian native