

Daniel Dolatabadi

Senior Full-Stack Developer | Node.js | React | TypeScript | AI/LLM Integration

Location: Tehran, Iran (Open to Relocation)

Email: daniel.dolatabadi@gmail.com

Phone: +44 7947 166910 (WhatsApp available)

Website: daniel-dolatabadi.vercel.app

LinkedIn: linkedin.com/in/danieldolatabadi

GitHub: github.com/typerhack

Professional Summary

Senior Full-Stack Developer with 5+ years of experience building production-grade applications with Node.js, React, Next.js, and TypeScript. Proven track record owning projects end-to-end — from backend API and database architecture through frontend delivery and production deployment.

Hands-on experience designing multi-provider AI/LLM integrations, including provider abstraction layers, prompt engineering, memory-aware conversational systems, and structured output parsing. Built complete authentication systems, real-time SSE streaming, payment integrations, and complex UI systems including a custom drag-and-drop CMS page builder.

MBA background informs a product mindset: building systems that solve real business problems, not just working code. Security-conscious — responded to critical CVEs in production. Available immediately for full-time remote or relocating positions.

Technical Skills

Category	Technologies
Frontend	React.js (v18/v19), Next.js (v15/v16 + Turbopack), TypeScript, JavaScript (ES6+), HTML5, CSS3
State Management	Redux Toolkit (multi-slice: cart, auth, consent, config; Redux Persist, localStorage hydration), Context API
Rendering	SSR, SSG, ISR — applied per page type based on content freshness and performance requirements

Category	Technologies
Styling & UI	Tailwind CSS (v3/v4), shadcn/ui, CSS Modules, Framer Motion, GSAP, Responsive Design, Dark Mode, RTL/LTR layouts
CMS / Page Builder	Custom drag-and-drop page builder (37 section types, @dnd-kit core/sortable/modifiers), dynamic component registry, Zod-validated section schemas, lazy-loaded editors, real-time unsaved change tracking
Real-time & Async	Server-Sent Events (SSE) — streaming progress, global connection registry, pause/resume/cancel patterns, heartbeat mechanism; node-cron (scheduled jobs)
AI/LLM Integration	Multi-provider abstraction (OpenRouter 200+ models, Google Gemini, Ollama, OpenAI, Anthropic), AIManager singleton + factory pattern, auto-fallback on rate limits, provider health monitoring, per-model usage tracking, 4-tier persistent conversation memory (history, preferences, context, knowledge), prompt engineering, structured JSON output parsing with multi-format fallback, circuit breaker pattern, chunked batch AI processing
Web Automation	Playwright (headless browser crawling, full DOM rendering, SEO data extraction, robots.txt compliance)
Forms & Validation	React Hook Form, Zod (frontend + API layer), express-validator
UI Libraries	dnd-kit, TipTap (rich text with extensions), Quill, Recharts (data dashboards), Swiper, Framer Motion, React Dropzone, React Hot Toast, shadcn/ui, Crisp Chat, wavesurfer.js
Auth & Security	JWT (access + refresh token rotation, httpOnly Secure SameSite cookies; RS256 asymmetric key signing via jose), Google OAuth, OTP verification, bcrypt (10–12 salt rounds), reCAPTCHA v3, device tracking (multi-device sessions), RBAC with granular permissions, DOMPurify (XSS sanitization)
Backend	Node.js, TypeScript, Express.js (v5), Next.js API routes, MVC pattern, REST API design (40–65+ endpoints per project), rate limiting, pagination, full-text search, webhook handling
Database	MongoDB + Mongoose ODM (up to 44 models, text indexes, aggregation pipelines, TTL indexes, compound indexes, connection pooling), SQL fundamentals
Payments	Stripe (session-based checkout, webhook-driven order automation), coupon/discount system, tiered loyalty program (6 tiers, spend-based calculation)
File Uploads & Media	Multer (multipart form handling), Sharp (image processing, validation, resizing), media library with year/month organization
Email	Nodemailer + React Email templates, configurable SMTP (Zoho Mail, Gmail), transactional emails with audit logging
External APIs	Google Search Console API (OAuth2, query analytics), Google PageSpeed Insights API (Core Web Vitals), Google Drive API

Category	Technologies
	(backup/restore), Google Tag Manager (consent mode v2), Google Analytics, OpenRouter API, Google Gemini API, Ollama API
SEO	Dynamic meta tags (react-helmet-async), XML sitemap generation with caching, schema.org structured data (JSON-LD), Open Graph + Twitter Card, canonical URLs, hreflang (multi-locale alternate links)
Data Export	ExcelJS (Excel export), PapaParse (CSV parsing/export)
Logging	Winston structured logging with daily file rotation (winston-daily-rotate-file)
Performance	Code splitting (Vite manual chunks), React.lazy + Suspense, Turbopack, bundle analysis, memory-optimized builds, database indexing
Testing	Jest, React Testing Library
DevOps & Infrastructure	PM2 (process management), Nginx (reverse proxy, security headers, SSL termination), Fail2Ban (brute-force protection), AppArmor, Let's Encrypt SSL (automated renewal), Ubuntu VPS, CI/CD, Security Incident Response
Containerization	Docker (custom images, Docker Compose, multi-container environments) — personal project experience
Design Tools	Figma (design-to-code implementation)
Tools	Git, Agile/Scrum, Code Review, Technical Documentation (20+ pages per project)

Professional Experience

Freelance Full-Stack Developer

Signal Before Noise (client) | signalb4noise.com | May 2026 | Freelance

Designed and shipped a production publishing platform for a client from zero to deployment in 9 days, then continued iterating to v1.51 — adding an analytics dashboard, tiered backup/restore system, and subscriber management post-launch.

Key Achievements:

- Built a **multilingual Next.js 16 App Router** application supporting 4 locales (Persian, English, Arabic, Turkish) with automatic RTL/LTR layout switching and per-locale hreflang alternate tags
- Implemented **custom JWT auth with RS256 asymmetric keys** via `jose` — httpOnly Secure SameSite=Strict cookies, bcrypt (cost 12), rate-limited login (5 attempts per 15 minutes), credentials in environment variables (no user table)

- Built **TipTap v3 rich text editor** with per-locale translation tabs, text alignment, table support (insert/edit contextual controls), image and link extensions; Notes (short-form content) alongside full articles
- Designed **8 MongoDB models** (Article, Note, Media, Subscriber, SitePage, BackupConfig, ViewLog, ViewSnapshot) with a nested per-locale translation slot schema; `React.cache()` for query deduplication across server components
- Built **subscriber system** with email signup, rate limiting (5 req/10 min per IP), duplicate email detection (409), HTML-tag stripping for XSS prevention, and a paginated dashboard with delete
- Built an **analytics dashboard** — Recharts area and bar charts (30-day cumulative trend, 24h hourly breakdown in Tehran timezone), top content ranking by all-time and 24h views; layered bot suppression (client-side JS gate, User-Agent regex filter, IP+slug dedup via ViewLog TTL collection with 24h expiry)
- Implemented a **tiered backup and restore system** — `mongodump + .tar.gz` archives, three retention tiers (daily last 3 / weekly last 1 / monthly last 1 / manual never auto-deleted), cron scheduling gated by a separate `BACKUP_CRON_TOKEN`, `.backup.lock` for concurrency prevention; restore from stored backup or uploaded archive
- Built media library handling images, audio, and PDFs — UUID filename generation, MIME-type + extension validation, 10MB limit; audio playback via `wavesurfer.js` waveform player
- Full **SEO stack**: JSON-LD structured data, canonical URLs, XML sitemap (ISR-cached), Open Graph, hreflang alternate links, robots.txt
- Implemented **Winston structured logging** with MongoDB transport (30-day TTL index)
- **Full production deployment in 9 days**: PM2 + Nginx (reverse proxy, security headers) + Cloudflare Full Strict SSL (Origin Certificates) on Ubuntu VPS; hardened with UFW, Fail2ban (4 jails), auditd, rkhunter, kernel sysctl rules, and a dedicated unprivileged app user

Technologies: Next.js 16 (App Router), TypeScript, Tailwind CSS v4, MongoDB, Mongoose, TipTap v3, jose (RS256 JWT), bcryptjs, wavesurfer.js, Framer Motion, GSAP, Recharts, Winston, PM2, Nginx, Cloudflare, Ubuntu VPS

Senior Full-Stack Developer

Ecom Edge Innovators LLC | July 2024 - November 2025 | Full-time

Built and maintained production applications in a startup environment, owning features end-to-end from backend API design through frontend delivery and production deployment.

Key Achievements:

- Designed and built a **custom drag-and-drop CMS page builder** (37 section types, @dnd-kit) — enables non-technical clients to compose pages from a registry of pre-built, Zod-validated section components with real-time unsaved change tracking and lazy-loaded editors
- Designed and maintained **REST APIs** across two production applications — 30–44 endpoints per project covering authentication, product catalog, search, user management, media, and business logic
- Built **complete authentication systems** from scratch: JWT access + refresh token rotation, Google OAuth, OTP email verification, reCAPTCHA v3, bcrypt, device tracking, and role-based access control with granular permissions (owner/admin/editor/customer)
- Implemented **Redux Toolkit multi-slice state management** across complex applications: shopping cart with deduplication and localStorage persistence (Redux Persist), user auth state, cookie consent, and global config — with client-side hydration to prevent SSR mismatches
- Applied **SSR, SSG, and ISR strategically** per page type in Next.js — balancing freshness, SEO, and performance
- Built **real-time SSE streaming** for long-running operations (web crawling, PageSpeed analysis) — global connection registry, per-channel routing, heartbeat mechanism, pause/resume/cancel
- Designed **21–44 MongoDB models** per project with Mongoose ODM: text indexes for full-text search, aggregation pipelines for complex queries, TTL indexes for session expiration, compound indexes for query optimization
- Implemented **Stripe payment integration**: session-based checkout, webhook-driven order status automation, coupon/discount system with usage tracking, tiered loyalty program (6 tiers, spend-based automatic calculation)
- Built file upload and media management system using **Multer + Sharp**: image processing, validation, type enforcement, organized storage
- Integrated **Nodemailer** with configurable SMTP (Zoho Mail, Gmail) and React Email templates for transactional emails with audit logging
- Integrated **Google Drive API** (OAuth2) for automated database backup/restore with progress tracking and scheduling
- Managed **PM2 + Nginx + Fail2Ban + AppArmor + Let's Encrypt SSL** on Ubuntu VPS — production deployment, certificate auto-renewal, reverse proxy configuration, security hardening
- Reduced page load times by approximately **30%** through code splitting, lazy loading, Turbopack migration, and caching
- Responded to critical security incidents (CVE-2025-55182, CVE-2025-14847) — assessed exposure, patched production systems, implemented hardening measures
- Translated Figma designs into **pixel-perfect, accessible, responsive implementations** including RTL/LTR multilingual layouts
- Wrote **20+ pages of technical documentation** per project covering API patterns, auth system, deployment, backup system, and design system

Projects Delivered:

Athena Telecom LLC | athenatelecom.ae

Enterprise Next.js 16 application for a satellite communications company (Dubai, UAE). Built the custom drag-and-drop CMS page builder (37 section types, @dnd-kit), Redux Toolkit multi-slice state (cart, user, consent), full blog engine with Quill rich text editor, product/services/solutions catalog, unified full-text search, quote cart system, complete JWT auth (refresh token rotation, device tracking, reCAPTCHA v3, Google OAuth, OTP, RBAC), Google Drive backup integration, Nodemailer + React Email template system, Google Tag Manager with consent mode v2, PM2 + Nginx + Fail2Ban production deployment.

Green Leaf Printing House | glph.ca

Production e-commerce platform (MERN stack, monorepo) for a Canadian printing company. Backend: Express.js v5 with 27 route files, 38 controllers, 44 MongoDB models. Features: Stripe checkout + webhook-driven order status, tiered loyalty program (6 tiers, spend-based calculation), coupon system, Multer + Sharp file uploads, Nodemailer (Zoho Mail SMTP) transactional emails, advanced popup manager with analytics (views, clicks, email captures), XML sitemap with caching, PM2 + Nginx + Let's Encrypt SSL. Frontend: React 18 + Vite with TypeScript, Redux Toolkit + Redux Persist (cart/auth), React Hook Form + Zod, Framer Motion animations, Recharts data dashboards, TipTap rich text editor, Axios interceptors for token handling, Crisp Chat live support.

Technologies: React, Next.js, TypeScript, Node.js, Express.js, MongoDB, Mongoose, JWT, OAuth, Stripe, Multer, Sharp, Nodemailer, Redux Toolkit, Framer Motion, TipTap, Recharts, dnd-kit, SSR/SSG/ISR, SSE, REST APIs, PM2, Nginx, Let's Encrypt, Git

Front-End Developer

Hybevo | March 2020 - September 2024 | 4 years 7 months | Full-time

Developed production front-end applications with focus on performance, scalability, and user experience.

Key Achievements:

- Improved Google PageSpeed score from **46 to 97** through systematic performance optimization, code splitting, and asset optimization
- Built scalable UI component architecture emphasizing reusability and maintainability
- Integrated REST APIs and implemented Context API for shared application state
- Collaborated closely with designers and backend developers to implement features accurately
- Enhanced cross-browser compatibility and responsive design across devices

Technologies: React, Next.js, TypeScript, JavaScript, Context API, REST APIs, HTML5, CSS3, Git

Computational Design Instructor (Grasshopper)

Pars University of Art and Architecture | December 2017 - March 2020 | 2 years 4 months

- Taught Grasshopper (parametric/computational design) to architecture students
 - Developed curriculum for visual programming and algorithmic thinking in architectural design
-

Projects

AI-Powered SEO & Marketing Assistant | Next.js 15, Node.js, TypeScript, MongoDB, Playwright | Personal Project | In Development

Full-stack AI platform with 63 API routes, 18 MongoDB models, and 11 dashboard sections. Core: built a **multi-provider AI abstraction layer** from scratch — unified interface across OpenRouter (200+ models), Google Gemini, Ollama (local LLMs), OpenAI, and Anthropic. Implemented auto-fallback on rate limits, provider health monitoring, per-model usage tracking, and a 4-tier persistent conversation memory system (history, preferences, context, knowledge) injected into every prompt. Additional features: Playwright headless browser web crawling with real-time SSE progress streaming (pause/resume/cancel); Google Search Console API (OAuth2, query analytics, weekly AI reports via node-cron); Google PageSpeed Insights API (Core Web Vitals, desktop/mobile); AI-driven keyword categorization with chunked batch processing; structured JSON output parsing with multi-format fallback; circuit breaker error recovery pattern; Winston structured logging with daily file rotation. Available for local demonstration.

Lonely Assistant for Obsidian | TypeScript | Open Source

AI assistant plugin for Obsidian enabling chat with local Ollama or OpenAI-compatible servers. TypeScript, plugin architecture, and API integration.

LAMP Install Script | Shell

Automated development environment setup script for Ubuntu/WSL. DevOps and infrastructure automation.

Education

Master of Business Administration (MBA) - Marketing

Tehran Business School | 2020 - 2022

Focus on business operations and client-centric product development.

Master of Architecture (M.Arch.)

Pars University of Art and Architecture | 2016 - 2018

Thesis: "Application of AI with BIM for Architectural Design" — applied AI to optimize building information modeling processes.

Bachelor's Degree - Industrial Management

Shahrood University of Technology | 2007 - 2011

Certifications

Certificate	Issuer	Date
HTML, CSS, and JavaScript for Web Developers	Coursera	March 2022

Languages

- **English:** Professional working proficiency
 - **Persian:** Native proficiency
-

Additional Information

- Available for full-time remote or relocating positions (visa sponsorship required)
- Comfortable with remote, hybrid, or on-site arrangements
- Experienced with pair programming, code review, and agile practices