Denis Voronin

Software Engineer | React · TypeScript · TanStack · Astro · Hono

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PROFESSIONAL SUMMARY

Results-driven **Fullstack Engineer** with a strong frontend focus, specializing in modern TypeScript ecosystems (React, TanStack Start, Astro, Hono). Proven track record in optimizing web performance (reducing **mobile FCP from 6.0s to <2.0s** and desktop load times to ~1s), building resilient UI architectures, and streamlining developer-to-marketing workflows. Experienced in large-scale legacy modernizations (untyped JavaScript to strict TypeScript, Redux Connect HOCs to Redux Toolkit Slices) and designing end-to-end type-safe backend micro-services with Hono RPC.

TECHNICAL SKILLS

Languages	TypeScript, JavaScript (ES6+), HTML5, CSS3 / SCSS, SQL
Frontend Ecosystem	React (18/19), TanStack Start (SSR), Astro (Islands Architecture), Vite, TinaCMS, Paraglide JS (i18n), Motion, Vitest, Testing Library, SCSS Modules
Backend & APIs	Hono.js, NestJS, Node.js, Express.js, RESTful APIs, GraphQL, Better Auth, Hono RPC Type Sharing
State & Data	Zustand, TanStack Query, Redux Toolkit, RTK Query, Reselect, Context API, Matomo Analytics DataLayer
Databases & ORM	PostgreSQL, Drizzle ORM, Prisma 7, SQLite, Database Transactions & Schema Indexing
DevOps & Tooling	GitHub Actions (CI/CD), Nginx Reverse Proxy, Linux / Bash Scripting, Docker (multi-stage builds, website & backend deployment on VPS), pnpm Monorepos
Architecture & Practices	Server-Side Rendering (SSR) vs. SSG, A/B Testing, Headless CMS Architecture, Web Vitals Optimization

PROFESSIONAL EXPERIENCE

Webbee Technologies — Frontend / Fullstack Developer — Hybrid — September 2025 – Present

- **Astro to TanStack Start Migration:** Re-architected core marketing platform from static Astro (SSG) to dynamic TanStack Start (SSR); decoupled content editing workflows via dedicated CMS repository, and configured production self-hosting with Nginx on a Linux VPS.
- **Performance & Core Web Vitals:** While still on Astro, audited the import graph and found a barrel index file pulling all ~400 page modules into every page; split it so pages load only what they use. Replaced raw SVG icons injected via innerHTML with separately loaded icon files, shrinking the HTML and letting icons download in parallel and stay in the browser cache. Result: Mobile FCP from **6.0s down to <2.0s** and Desktop initial load time to **~1.0s**.
- **Internationalization (i18n):** Added full English localization to the previously German-only website with Paraglide JS, wiring Paraglide middleware into the TanStack Start SSR pipeline so locale-aware pages render on the server.
- **Conversion & A/B Testing:** Redesigned high-traffic Hero and onboarding funnel sections, achieving a **2× increase in Demo request conversions** through rigorous split-testing and UI interaction refinements.
- **Configurator Architecture:** Engineered a modular multi-step contact configurator modal using a Linked List pattern paired with persisted Zustand state, cleanly decoupling step business logic from navigation routing.
- **High-Throughput Backend & RPC:** Rewrote legacy JavaScript Express backend to TypeScript + Hono, creating a high-throughput API micro-service for user tracking and lead ingestion; implemented Hono RPC to share compile-time typings directly with frontend clients.
- **Analytics & SEO Infrastructure:** Embedded custom Matomo DataLayer event tracking for granular heatmap analysis; engineered dynamic JSON-LD structured schemas for blogs/FAQs to maximize organic search visibility.
- **Legacy SaaS Platform Modernization:**
  - Migrated administrative dashboard codebase from plain untyped JavaScript to strict TypeScript.
  - Refactored legacy Redux state tree (connect HOCs) to modern Redux Toolkit (RTK) slices with precise schema typings.
- **Third-Party Integrations & Interactivity:** Integrated Intercom messenger, Calendly meeting booking, and HLS video streaming with Video.js; built Motion-driven UI animations; extended the Hono mail service with Nodemailer email delivery and Twilio SMS for lead notifications and phone verification.
- **Testing:** Set up component and unit testing with Vitest and React Testing Library.
- **Automation & CI/CD:** Programmed automation scripts generating **300+ programmatic SEO landing pages**; co-authored automated GitHub Actions CI/CD deployment pipelines utilizing Bash and Nginx.

PROFESSIONAL EXPERIENCE (CONTINUED)

Early-Stage SaaS & Freelance Projects
Frontend Developer (Contract) | Remote | December 2024 – May 2025

- **Interactive Pricing & Subscription Calculator:** Engineered a dynamic plan estimation modal in React featuring real-time price calculations, responsive UX adjusting to selected tiers, and custom animated progress indicators.
- **Checkout & Billing Flow Redesign:** Overhauled pricing tier comparisons and billing cycle toggles (monthly/annual), eliminating user friction and streamlining conversion handoff to payment gateways.
- **Customer Retention & Churn Mitigation:** Built an end-to-end cancellation prevention flow, integrating a React modal with a Node.js/Express API to validate contract IDs, trigger automated retention emails, and log churn records for support triage.
- **Component Architecture & Form Validation:** Standardized reusable UI form components with robust client-side validation and graceful error states, substantially reducing user drop-off across complex modal flows.

Freelance Engineering
Frontend Developer | Independent | March 2024 – December 2024

- **Telegram Mini App (E-Commerce Catalog):** Developed an interactive Telegram Web App (TWA) utilizing React, JavaScript, and Telegram WebApp SDK, featuring category filtering, live search, and native mobile-first UX for a retail business.
- **Fullstack Mini App & Inventory Manager:** Built a catalog web app with Telegram integration backed by Python (Django) and SQLite deployed on Railway; built a lightweight administrative dashboard for real-time stock and price updates.
- **Interactive Cost Calculator & Lead Funnel:** Created an interactive multi-step cost estimator widget in React for a service business, calculating instant quotes and dispatching lead inquiries directly to Telegram via webhooks.
- **Responsive Landing Pages:** Built high-conversion landing pages utilizing semantic HTML5, modern CSS, and JavaScript; integrated serverless form handlers delivering customer leads instantly via email and messengers.
- **Mobile UI Overhaul & Performance Cleanup:** Refactored legacy HTML/CSS architecture for a retail website, resolving layout shifts (CLS), fixing mobile viewport glitches, and drastically boosting page speed.

Independent Study & Software Foundations
Frontend Developer | Self-Directed | September 2023 – March 2024

- **Core Web Foundations:** Executed an intensive curriculum mastering JavaScript (ES6+), DOM APIs, CSS layouts (Grid/Flexbox), and foundational computer science data structures through hands-on vanilla applications.
- **Modern React Mastery:** Progressed from React Class components to functional components, Hooks, and custom state architectures, establishing deep fluency in unidirectional data flow, component lifecycles, and render optimization.
- **Algorithmic & Engineering Validation:** Participated in The Rolling Scopes School (RS-School) program, validating advanced JS algorithms, Git workflows, clean code principles, and readiness for enterprise-level web engineering.

KEY ENGINEERING PROJECTS

1. Dynamic Booking & Form Engine (Bookio) ACTIVE DEVELOPMENT

bookio.dvoronin.tech Source Code

A production multi-tenant SaaS platform enabling businesses to build, customize, and deploy dynamic booking funnels with polymorphic field schemas, runtime brand theming, and server-rendered SEO previews.

Stack: TanStack Start (SSR), React (Vite), Hono, TypeScript, PostgreSQL, Drizzle ORM, TanStack Query, Zustand, Better Auth, SCSS Modules, TanStack Router, TanStack Table, React Hook Form, Zod, Motion, Vitest, Testing Library, pnpm Workspaces

- **SSR Engine & Theming (TanStack Start & Nitro):** Built an SSR pipeline resolving dynamic multi-tenant routes (`/:org/:form`) with instant loads and crawler indexing. Dynamic `<head>` meta injection for OpenGraph cards; runtime CSS variable theming (`--color-*`) based on tenant palettes; E.164 phone normalization via `libphonenumber-js` .
- **Interactive Admin Studio (React SPA):** Developed visual form-builder with dual-layer state (TanStack Query for server cache + Zustand for optimistic drafts). Implemented live side-by-side preview via shared UI runtime (`@bookio/booking-form-ui`), drag-and-drop canvas supporting 14 field types, and selective batch syncing using `fast-deep-equal` diffing.
- **Type-Safe Backend & Data Layer:** Architected modular Hono API with compile-time type safety via Hono RPC (`hc<AppType>`). PostgreSQL + Drizzle ORM with UUIDv7 keys, compound indexing, and Zod discriminated union validations. Built atomic sync (`PUT /fields/sync`) in ACID transactions and session auth via Better Auth.

2. Web Music Streaming Application (BROOKLYN) COMPLETE PROTOTYPE

music.dvoronin.tech Source Code

Desktop-class web music streaming platform inspired by Spotify and Apple Music, built with a production monorepo, self-hosted media catalog, custom playback engine, and dark-mode glassmorphic interface.

Stack: React 18, TypeScript, Vite, TanStack Router, Redux Toolkit, RTK Query, Reselect, SCSS Modules, Hono, Drizzle ORM, PostgreSQL, Zod, pnpm Workspaces

- **Audio Engine & State Synchronization:** Custom HTML5 Audio API controller managing buffering, playback rate, and scrubbing; Redux Toolkit middleware decoupling audio events from UI; Fisher-Yates shuffle algorithm and global hotkey shortcuts; real-time track liking via RTK Query.
- **Persistent Routing & Design System:** TanStack Router for fully type-safe file routes; persistent player layout ensuring zero audio interruption during page navigation; glassmorphic UI using SCSS Modules with translucent blur (`backdrop-filter`), mini-player, and expanded full-screen player.
- **TypeScript Backend & RPC:** Re-architected backend from Django to TypeScript Hono server in pnpm monorepo with Drizzle ORM and PostgreSQL; achieved end-to-end type safety via Hono RPC; token auth with scrypt password hashing.

3. Coffee Roastery Website (Kvarta) TECHNICAL ASSESSMENT

coffee-house.dvoronin.tech Source Code

Landing page for a Minsk coffee roastery, built as a technical assessment. Designed the architecture and backend structure, directed AI-assisted implementation, reviewed code, and refined the final result.

Stack: Astro, React, Hono, PostgreSQL, Drizzle ORM, Telegram Bot API

- **Lead Processing:** Implemented server-side Belarusian phone validation and Telegram notifications; repeat submissions within 24 hours update the existing lead, while later submissions create a new record.
- **Lighthouse:** Performance **98 mobile / 100 desktop**; mobile FCP **0.9s**, LCP **1.7s**, TBT **0ms**, CLS **0**.

EDUCATION & BACKGROUND

Technical Vocational Degree (Mechanical Engineering / Machining)

Strong practical grounding in technical precision, problem decomposition, and systems thinking.

Continuous Software Engineering Foundations

Self-directed deep dives into web standards, JavaScript runtime internals, and reactive architecture.

LANGUAGES

English	B2 · Professional Working
Russian	Native Proficiency