Ivan Prtljaga

Full-stack TypeScript engineer building React and Node.js SaaS, commerce, and content platforms

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GitHub

Profile

I build operationally complex SaaS, commerce, and content products with TypeScript, React, Next.js, Node.js, Express, PostgreSQL, and MongoDB. My portfolio work includes multi-tenant billing and access-control systems, configurable multilingual CMS and admin tooling, commerce workflows, and accessibility-audit infrastructure.

Experience

2018 - 2025 Belgrade

Fullstack Developer

DXBEE D.O.O

Full-stack developer working primarily with the MERN stack for e-commerce and presentation websites.

- Developed multiple custom e-commerce websites covering both backend and frontend.
- Designed and deployed numerous NextJS presentation sites before and after app router update.
- Integrated third-party APIs to expand platform capabilities and improve user experience.
- Built embedded devices with a custom Arch Linux fork and Electron apps for specialized use cases.
- Contributed to EU-funded projects with tailored technical solutions.
- Optimized a major platform via multi-core processing and multi-threaded endpoint improvements.
- Integrated OpenAI API to add AI-driven features in a multi-tenant ecommerce platform serving 100k+ users.

2025 - 2026 Belgrade

Senior Software Engineer

Brigit Dev

Full-stack developer building real-time, integration-heavy web platforms on a TypeScript/Next.js stack, including AI voice-agent and healthcare document-processing systems.

- Developed a healthcare records platform with integrated AI voice agents for automated outbound calling, agentic AI to coordinate outerach calls and messages.
- Designed a modular voice pipeline (speech-to-text, LLM, text-to-speech) with HIPAA-conscious architecture keeping protected health data off the voice layer.
- Built a webinar platform with webhook-driven lead capture, plus real-time live chat and dashboards over Server-Sent Events.

2026 Remote

Software Team Lead

AdvancedBytez

Technical lead across the company's product portfolio. Set architecture, assigned and reviewed the team's work, and owned every release that shipped.

- Designed a Turborepo monorepo with a Next.js app on Vercel and a separate dispatcher/worker scanning tier using BullMQ and Redis for job orchestration.
- Implemented automated WCAG auditing with Playwright/Chromium, including authenticated scanning for pages behind login and cookie consent detection covering 12+ consent management platforms.
- Built issue grouping to collapse thousands of raw violations into actionable remediation items, plus a public accessibility badge system for customer sites.
- Led development end to end, owning technical direction and delivery.
- Assigned and reviewed the team's work, merged all incoming changes, and reworked submissions that missed on quality or architecture.
- Owned all deployments across the company's services.

Education

2008 - 2012

Computer Electrician

School Centre "Nikola Tesla"
Vršac

2012 - 2016

Software Engineering

Metropolitan University
Belgrade

Skills

Languages: TypeScript, JavaScript, HTML, CSS, SCSS

Frontend: React, Next.js, Tailwind CSS, Vite, Material UI, React Router, i18next, React Query

Backend: Express, Prisma, Mongoose, tRPC, Supabase, Drizzle

Databases: MongoDB, PostgreSQL

DevOps: Docker, AWS

Tools: Vitest, React Testing Library, Zod

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Projects

Siella Beauty

Lead Developer

Siella Beauty is a full-stack beauty commerce platform that powers a product-driven website with an operations-focused admin dashboard.

JavaScript · Shell · HTML · Less · Dockerfile · Node.js +27 more

- Implemented a modular Node.js/Express API layer (src/api.js) that wires up over a dozen services (Users, Products, Orders, Blogs, Reviews, Statistics, etc.) through a custom App abstraction for consistent configuration and middleware handling.
- Configured robust request processing with CORS, JSON and URL-encoded body parsing (50mb limit), cookie parsing, and centralized HTTP error handling using http-errors and custom log middleware (src/api.js).
- Used Bluebird as the global Promise implementation to optimize asynchronous performance and provide advanced promise utilities across the backend (src/api.js).

Provides a full-stack, containerized e-commerce and content management backend with an admin console for managing users, products, orders, content, and marketing integrations for the Siella Beauty platform.

271 hours 2 months 690 commits

Learn More →

Ecolog

Core Developer

ecolog-international.com

Ecolog is a custom content platform that lets non-technical teams assemble complex, multilingual marketing pages from reusable sections instead of hardcoded layouts.

JavaScript · Express · React · Next.js · Mongoose · Ant Design +16 more

- Designed and extended the section schema system for pages using Mongoose discriminators and embedded file references, enabling rich, configurable CMS layouts with reusable content types.
- Implemented advanced admin section editors for cards, content, sliders, highlights, and stats using hive-admin's DSL, giving non-technical users fine-grained control over homepage layouts.
- Built a nested, sortable list form component with drag and drop, collapse behavior, and validation, dramatically improving usability for managing complex settings and footer structures.

Led development of the Node/Express backend and most of the frontend functionality, including the custom middleware pipeline, query sanitization layer, file lifecycle management, section-based CMS models, and the integration of the admin and Next.js website. Collaborated with other developers on visual styling and UI polish while owning the core architecture, API design, and dynamic page rendering.

53 hours 2 weeks 134 commits

Learn More →

Tempo

Solo Developer

Tempo is a multi-workspace time tracking and billing system for teams that need to turn recorded work into defensible invoices without exposing another workspace's data or charging for the same time twice.

TypeScript · Next.js · React · Drizzle ORM · Zod · Tailwind CSS +20 more

- Engineered transactional invoice drafting that links eligible entries before totaling, using unique conflict handling to prevent double-billing and persisted snapshots to render immutable PDFs.
- Engineered multi-workspace authorization with surface-specific scope axes and PostgreSQL advisory locks, preventing cross-tenant exposure while serializing concurrent first-login workspace provisioning.
- Implemented revocable HS256 credential sessions with Argon2 timing equalization, namespaced persistent throttles, and database session versions that invalidate every token after credential changes.

Enables teams and independent professionals to track work across clients and workspaces, control rate visibility, approve time, and turn billable records into reliable multi-currency invoices.

104 hours 3.5 weeks 282 commits

Learn More →

Vidik

Solo Developer

vidik.site

Vidik is a progressive web app that turns Serbia's offbeat single-sights into effortless day trips, focused on one simple loop: see what is near you, grab a curated route, launch Google Maps, go, and tick it off.

TypeScript · Next.js · React · Leaflet · Leaflet.markercluster +7 more

- Tabbed AppShell layout composes Nearby, Routes, Passport, and detail screens under src/app/[locale]/(tabs)/layout.tsx for a consistent mobile first navigation.

Vidik helps travelers quickly discover, route, and track offbeat single-sight trips across Serbia from their current doorstep, even on flaky or offline connections.

52 hours 1.5 weeks 148 commits

Learn More →

TemplateScan

Solo Developer

Work in Progress

TemplateScan is a multiengine accessibility scanning stack built to answer a hard question for large websites: how many pages are actually affected by each WCAG issue, not just which pages you sampled.

TypeScript · JavaScript · axe-core · Puppeteer · Playwright +11 more

- Engineered a canonical axe-compatible violation schema with strict XPath exclusion and provenance validation so multi-engine findings merge safely into existing scoring and UI pipelines.
- Built a cross-engine deduplication layer keyed on WCAG success-criterion tags and stable DOM node identifiers to eliminate double counting while preserving per-engine attribution and impact severity.
- Implemented a browser-agnostic DOM identity system that stamps elements with stable selectors across frames and shadow roots, enabling reliable multi-engine merging and repeatable attribution for large-scale audits.

This system powers multi-engine accessibility scanning, turning heterogeneous tool outputs into statistically grounded, axe-compatible sitewide WCAG compliance insights for product, legal, and vendor governance teams.

97 hours 3 weeks 283 commits

Learn More →

Battery

Lead Developer · android/

Battery is an Android companion for Claude Code users who need to see session, weekly, model-specific, and extra-usage limits before an unexpected quota interruption.

Kotlin · Android · Jetpack Compose · AndroidX WorkManager · Gradle

- Built a foreground session service that posts promoted Android Live Update cards, coupling fast usage polling to a visible lock-screen surface.
- Implemented loopback PKCE with Custom Tabs state validation for OAuth request correlation and authorization-code exchange protection.
- Engineered serialized usage polling with a mutex and freshness gate, persisting rotated OAuth credentials before requests to preserve valid sessions through failures.

Designed to help Android users monitor authenticated Claude usage and anticipate quota interruptions while away from a desktop.

18 hours 3 days 74 commits 27 stars 4 forks

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