

Marko Radak

A full-stack engineer and founder blending product design, AI, and scalable architecture into cohesive user experiences

Email
mail@markoradak.com

GitHub LinkedIn

Profile

Full-stack software engineer and founder with over 10 years of experience shipping production systems across eCommerce, SaaS, IoT, and agency environments. Core strengths in frontend architecture (React / Next), multi-tenant platform design, and integrating generative AI into product workflows - grounded in 15+ years of graphic engineering and design practice that shapes how technical decisions become product experience. Led distributed engineering and design teams of 10+ across three countries and personally architected systems for McDonald's, Philips, Pampers, and Hugo Boss. Throughout 2025, co-founded and sole-engineered a white-label eCommerce SaaS from zero to 20+ active tenants processing over 1,000 orders per month. Most recently shipped 7 independent products end-to-end — spanning native desktop apps, AI platforms, developer tools, and a custom calculation engine - each built solo and verified through real GitHub activity using one of those very tools.

Experience

2024 - Present — Belgrade, Serbia

Co-Founder

MOZHE.RS LLC

A multi-tenant ecommerce SaaS platform for creators and small brands to launch, customize, and automate online stores with AI-assisted tooling.

- Designed and built the full platform using TypeScript, Next.js, tRPC, and Prisma with schema-based tenant isolation in PostgreSQL - supporting custom domains (wildcard SSL via Cloudflare), per-tenant theming, and modular storefront configuration across more than 20 active stores processing a total of more than 1,000 orders per month.
- Created a self-serve, token-based design system (of over 80 design tokens) on Radix UI / Shadcn with a visual configuration panel and live preview, enabling merchants to fully theme their storefronts without engineering support - reducing new store visual setup from a couple of days to under one hour.
- Built a multi-model AI onboarding pipeline - GPT 4 models for copywriting, and later Gemini 3 for lifestyle & product photography (through fal.ai), and Claude Sonnet 4.5 with tools and function-calling for generating validated JSON page layout schemas - orchestrated via a task queue with automated quality gates, reducing average merchant data entry from 2 hours to less than 15 minutes.
- Developed a RAG-based support chatbot (OpenAI embeddings, pgvector, per-store catalog indexing, Redis pub/sub for real-time chat) that autonomously handled over 80% of inbound merchant queries using retrieval-confidence thresholds measured via a feedback loop tracking escalation rate and merchant re-contact within 24 hours. Remaining queries routed to human support through an async AI-formatted delivery pipeline, reducing manual support overhead by over 90%.

2016 - 2024 — Dubai, AE • Toronto, CA • Belgrade, RS

Chief Technology Officer

DXBEE LLC (TheHive x BigBuzz Media Group)

A creative technology studio delivering over 50 projects ranging from websites and SaaS platforms to mobile apps, IoT systems, and digital retail activations for brands and public institutions.

- Architected HiveOS, an internal IoT platform managing Raspberry Pi-based retail installations (hardware provisioning, CMS-driven content scheduling, real-time uptime and interaction analytics via WebSockets), deployed across 40+ locations for clients including McDonald's and various Procter & Gamble brands - powering interactive product displays and in-store activations.
- Engineered HiveAdmin, a CMS platform used to scaffold and manage over 30 client projects, generating boilerplate, CI config, and hosting setup, with role-based access, asset versioning, eComm modules, and review pipelines. Adopted as the default toolchain across the studio, cutting average time from client brief to deployed MVP from 3 months to 3 weeks.
- Built interactive retail installations including WebGL driven visuals using ThreeJS and React Three Fiber for Hugo Boss, Braun and Philips among others, including a camera-tracking display system using OpenCV on Raspberry Pi with a WebSocket control layer that adjusted content based on customer proximity (sub-500ms latency), deployed as a templated system across flagship retail locations in the UAE.
- Scaled the team from 3 to 10+ across Dubai, Belgrade, and Toronto (no timezone overlap). The critical problem was idle time from missed handoffs — sometimes a full day lost on a blocked PR. Designed a mandatory end-of-day handoff protocol combining written context summaries with short recorded walkthroughs, eliminating the morning scramble and keeping 50+ enterprise projects moving without cascading delays.

Education

2011 - 2013

B.Sc. in Computer Science (UG)
Faculty of Information Technologies
Metropolitan University
Belgrade, Serbia

2009 - 2011

B.A. in Graphic Engineering & Design
Faculty of Technical Sciences
University of Novi Sad, Serbia

2005 - 2009

Advanced Program in Mathematics & Applied Sciences
Gimnazija Isidora Sekuli
Novi Sad, Serbia

Skills

Languages: Typescript, Javascript, Bash, Swift, SQL, Rust, Python, HTML, CSS

Frontend: React, Next.js, Vue, Radix UI, Shadcn UI, Motion, Zustand, Zod, Three.js, Drei, React Three Fiber, React Spring, React Hook Form, Vite, Turborepo, Storybook

Backend: Node.js, PostgreSQL, Prisma, Express, tRPC, REST, WebSockets, Redis

Styling: Tailwind, Styled Components, Emotion, Sass, Less, Stylus, Modules

Infrastructure: Docker, Azure, Cloudflare, Vercel, Supabase, Porter, Railway, Fly.io, DigitalOcean, Accelerate

AI: Anthropic, OpenAI, Gemini, Replicate, Fal, ElevenLabs, Ideogram, Stability

Integrations: Stripe, Paddle, Polar, Resend, SendGrid, Google APIs, Mapbox

Design: Figma, Framer, Spline, Sharp3D, Photoshop, After Effects, Lightroom

Interests

Product Photography, Drone Cinematography, FPV, Industrial 3D Modeling & Printing, IoT & Home Automation, Music Production

checkmarked
checkmarked.dev/markoradak

Projects

All Things Claude

Solo Developer

allthingsclaude.cc

All Things Claude is a suite of independent tools that make Claude Code more practical for everyday development, from a menu bar analytics app to CLIs and a cross-device companion server.

Swift TypeScript JavaScript Ruby +8 more

- Implemented a local WebSocket companion server with Bonjour discovery that exposes Claude Code sessions to nearby devices, enabling zero-configuration, low-latency multi-device development workflows.
- Engineered a connection manager that orchestrates multiple concurrent WebSocket clients and session routes, preserving ordering and reliability while streaming live terminal context from Claude Code.
- Integrated an encrypted relay pipeline using Supabase functions that securely mirrors session data off the local network, enabling remote access without exposing raw development environments.

Together these repositories demonstrate the ability to design a cohesive AI developer ecosystem across native apps, CLIs, and web surfaces, with thoughtful security, analytics, and multi-device architecture.

270 hours 2 months 737 commits 78 stars 4 forks

Learn More →

Checkmarked

Solo Developer

checkmarked.dev

Checkmarked creates developer portfolios where every claim is tied back to real GitHub activity.

TypeScript SQL PLpgSQL Next.js +28 more

- Engineered a two-phase GitHub analysis pipeline combining deterministic scanning and deep AI passes, delivering instant tech insights while asynchronously enriching projects with descriptions, highlights, icons, and color palettes.
- Built a streaming SSE analysis framework that surfaces granular progress events and keepalive heartbeats, preventing platform timeouts and giving users real-time visibility into long-running AI operations.
- Designed a contribution-based role and claim verification engine that cross-checks GitHub commits against user statements, returning intuitive traffic-light outcomes and nuanced borderline handling to encourage honest portfolios.

Enables developers to generate code-verified portfolios and CVs where every claim is grounded in real GitHub evidence, increasing trust for hiring managers and reducing manual credibility checks.

185 hours 1.5 months 416 commits

Learn More →

Resolo

Solo Developer

resolo.ai

Resolo is a multi tenant AI customer support and sales platform that routes conversations across website widgets, social channels, and WhatsApp while keeping humans in control when it matters.

TypeScript Next.js React +25 more

- Designed a multi-agent orchestration engine using confidence tags, explicit [HANDOFF:*] markers, and escalation signals to route conversations between AI specialists and humans with controlled fallbacks.
- Built an organization-scoped RAG layer on Postgres pgvector with Redis embedding cache, enabling fast, relevant retrieval across FAQs and instructions without introducing a separate vector database.
- Engineered an auto-evolving FAQ pipeline that classifies guidance, performs semantic deduplication via embeddings, and updates organization FAQs based on configurable confidence thresholds to continuously improve support knowledge.

Resolo gives support and marketing teams an AI-first, multi-channel inbox that automates customer conversations while preserving human control, reliable delivery, and accurate usage-based billing.

138 hours 1 month 340 commits

Learn More →

Saldo

Solo Developer

saldo.so

Saldo is an AI-powered financial automation platform that turns messy real-world statements, invoices, and receipts into reliable, compliant bookkeeping data.

TypeScript Next.js React Prisma +29 more

- Engineered an AI-driven, self-healing bank statement importer that regenerates and validates per-bank parsing configs, dramatically reducing manual mapping work as statement formats change over time.
- Built a vision-augmented financial document parser that combines PDF text extraction, image understanding, and Serbian-specific tax rules to reliably structure invoices, receipts, and bills from noisy real-world uploads.
- Designed a two-phase AI tool orchestration layer where LLMs propose financial actions for human confirmation, then a hardened executor applies them with encryption, audits, and cache revalidation.

Saldo automates end-to-end financial paperwork for SMEs by extracting, reconciling, and submitting documents with AI, reducing manual bookkeeping and compliance overhead across banks, invoices, and government systems.

117 hours 4 weeks 244 commits

Learn More →

Pastry

Solo Developer

getpastry.app

Pastry is a privacy-first desktop clipboard manager that turns everything you copy—text, screenshots, and colors—into a searchable, organized history.

Rust TypeScript React Tauri +19 more

- Engineered a resilient Rust clipboard monitor with health watchdog, periodic handle refresh, and license-aware gating, delivering stable real-time history even under flaky OS clipboard behavior.
- Built a macOS-native window and focus controller that coordinates animated overlay toggling with atomic race protection, restoring the previous app instantly during rapid keyboard-driven switching.
- Implemented a screenshot ingestion pipeline that watches macOS screenshot folders, debounces noisy events, deduplicates via SHA256, and runs OCR to turn images into searchable clipboard entries.

Provides a fast, privacy-preserving desktop clipboard manager that unifies text, images, screenshots, and rich context into a searchable, organized history for power users.

168 hours 1.5 months 497 commits

Learn More →

Cali

Solo Developer

getcali.app

Cali is a text-first calculator for people who think in documents instead of cells.

TypeScript Rust Swift React +15 more

- Engineered a standalone calculation engine with custom lexer, parser, and evaluator so complex financial-style expressions run consistently across web, desktop, and CLI without UI coupling.
- Designed a domain-specific expression language supporting labels, scoped section totals, and running balances, enabling spreadsheet-like reasoning inside a linear text document without external references.
- Implemented a unit conversion framework with categorized registries, aliases, and non-linear temperature transforms, ensuring safe, accurate conversions between arbitrary unit pairs in user calculations.

Cali turns plain text documents into shareable, unit- and currency-aware calculators, helping users model real-world calculations consistently across web, desktop, and command-line environments.

95 hours 3 weeks 291 commits

Learn More →

Ola

Solo Developer

olamail.app

Work in Progress

Ola is a modern Gmail client for people who live in their inbox, combining a Slack-like conversation view with an AI assistant that actually understands their mail.

TypeScript PLpgSQL Next.js React +19 more

- Engineered a multi-account Gmail integration that layers Supabase user auth over separate gmail_accounts, enabling per-account token management, legacy compatibility, and seamless switching between primary and secondary inboxes.
- Built a custom Gmail client that automatically refreshes access tokens and constructs multipart MIME messages with attachments, ensuring reliable sending without relying on heavyweight Google SDKs.
- Designed a Gmail parsing pipeline that normalizes raw threads into UI-friendly models, decoding complex MIME structures, threading headers, attachments, and unsubscribe metadata for consistent mailbox views and logic.

Ola provides a modern, AI-augmented Gmail client that supports multi-account workflows, offline-safe drafting, intelligent categorization, and real-time notifications for productivity-focused email users.

91 hours 3 weeks 196 commits

Learn More →

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