

BHADRESHKUMAR MALANKIYA

Senior Full Stack Engineer | Software Architect | Technical Lead | AI Product Engineer

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PROFESSIONAL SUMMARY

Full Stack Architect and Technical Lead with 8+ years building and owning production SaaS platforms, AI-powered products, and enterprise systems. Sole technical owner of two live products (ExtendedForms.io and Quzo.ai) while leading engineering at ExpressTech Systems, where he scaled a platform to 100K concurrent users at 99.8% uptime and drove 3x revenue growth. Deep experience across Next.js, React, Node.js, and Laravel architectures, AI integrations (OpenAI, Claude, Gemini), data visualization (Highcharts, Mapbox, Three.js), and multi-tenant security (JWT, SSO, AES-256). Also spent a year as a founder (MB Systems), which added a business and product-ownership lens that shows up in how he scopes, prioritizes, and ships.

CORE STRENGTHS

- Finds and frames problems before writing code, then builds the solution end to end
- Thinks about product decisions the way a business owner would, not only as an engineer
- Tests features from a non-technical user's point of view before calling them done
- Picks up new stacks and tools quickly and puts them into production fast
- Strong research and development instinct, especially with new AI tooling
- Tracks revenue, retention, and growth for the products he owns, not just uptime and bugs

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, PHP, Java, SQL, HTML5, CSS3

Frontend: React.js, Next.js, Vue.js, AngularJS, Tailwind CSS, Material-UI, TanStack Query (React Query), RxJS

Backend: Node.js, Express.js, NestJS, Laravel, CakePHP

Mobile: React Native

Databases: PostgreSQL, MySQL, MongoDB, Firebase, Redis, pgvector

Cloud & DevOps: AWS, Google Cloud, Azure, Vercel, Docker, Kubernetes, Load Balancing, Auto-Scaling

Testing & QA: Jest, Cypress, Lighthouse, OWASP Security Testing, SonarQube

CI/CD & Dev Tools: GitHub Actions, GitLab CI, Jenkins, ESLint, Prettier, Husky

Visualization & Animation: Highcharts (bar, radial, and custom charts at large scale), Mapbox (Directions API, custom markers, geofenced triggers), Three.js (3D models, camera control), Framer Motion, Lenis, Animate.js

AI-Native Dev Tools: v0.dev, Windsurf, Cursor, Antigravity, Claude Code

AI Integrations: OpenAI, Claude (Anthropic), Gemini, RAG pipelines with pgvector

Third-Party & Business Systems: Stripe, Razorpay, Twilio, Binance API, Google AdSense, CRM, POS, RMS, SRP, ERP integrations

Security & Auth: SSO, JWT-based auth, AES-256 encryption, RFC-compliant security standards

PROFESSIONAL EXPERIENCE

Senior Software Engineer / Technical Lead | ExpressTech Systems

2022 – Present

- Sole technical owner of ExtendedForms.io, a Google Forms analytics and AI extension platform now at 401K+ users, 579K forms, and 8.7M respondents; drove 3x revenue growth
- Architected server-rendered applications with Next.js, cutting page load time by 60%
- Put Redis caching in place that cut database queries by 70% and brought response times down from 800ms to 120ms
- Scaled the backend to 100K concurrent users at 99.8% uptime
- Cut user churn by 40% and grew organic traffic 150% through an SEO-focused content and performance strategy
- Mentored 5+ engineers and set up Jest coverage above 90% alongside Cypress end-to-end tests
- Cut the bug escape rate by 75% and built a CDN strategy delivering sub-100ms response times globally
- Fixed a high-traffic page that was loading in 30 to 35 seconds down to 5 to 6 seconds using caching and TanStack Query

Founder (side venture, alongside full-time role above) | MB Systems

2023 – 2024 (about 1 year) | Surat, India

- Founded and ran a startup studio for about a year; the venture did not survive, but it changed how he leads and scopes work today
- Delivered client and Shopify e-commerce projects for local businesses in Surat
- Built the BPS crypto trading platform under the studio, reaching 10K+ users and \$2M+ in trading volume
- Trained 6 to 7 interns, all of whom are now well-settled in their careers, and gave guidance on other teams' projects
- Managed developers directly for the first time and picked up a project-manager's habits: scope, timelines, and priorities across several roles at once
- Handled client relationships end to end, including scope changes and hard conversations when timelines slipped
- Took on data and security decisions personally as the founder, a different level of accountability than being one engineer on a team
- Came away with a much clearer read on why startups fail: cash runway and timing matter as much as the product

Full Stack Developer / Senior Full Stack Developer | HQ Infosystem

2018 – 2022

- Delivered 15+ full-stack applications across edtech, logistics, fintech, and e-commerce
- Built enterprise backend systems handling millions of transactions
- Integrated Stripe, Razorpay, Twilio, Mapbox, and Binance APIs across client projects
- Built REST APIs with Node.js, Express, and Laravel handling 50K+ daily requests
- Built Stripe Connect multi-vendor payout systems
- Cut API response time by 45% through caching and query optimization
- Held 85%+ Jest coverage on critical modules

SELECTED PROJECTS

Quzo.ai (quzo.ai)

AI SaaS — sole ownership, built from scratch — AI-first exam and quiz platform with proctoring

Tech: Next.js, React, Node.js, OpenAI, Claude, Gemini, PostgreSQL, pgvector, Stripe

- Cut question creation time from 30 minutes to 30 seconds using AI generation
- Built a RAG pipeline (pgvector) for AI-generated question banks
- Runs a credit management system that lets users pick between OpenAI, Claude, and Gemini
- Added AI photo-based conversations, AI video animation, and AI video conversation features
- Ran organic keyword and SEO strategy together with the marketing and support teams

ExtendedForms.io (extendedforms.io)

B2B SaaS — sole technical owner — Google Forms analytics and AI extension platform

Tech: Laravel, Vue.js, Next.js, Node.js, PostgreSQL, MongoDB, Redis, Stripe, AWS

- 401K+ users, 579K forms, 8.7M respondents; drove 3x revenue growth
- Cut page load from 3.2s to 1.2s and grew organic traffic 150%

HelpDesk AI

AI SaaS — personal project, built solo on weekends — Multi-tenant AI support agent platform with threshold-based auto-reply

Tech: Node.js, IMAP IDLE, AES-256 encryption, JWT, PostgreSQL

- Cuts support engineer time by about 90% through threshold-based auto-reply
- Gets tickets resolved in hours instead of the 1 to 2 days manual handling took
- Multi-tenant with per-client subdomains and JWT-based data isolation

ZWOPR Admin Solution (app.zwopr.com)

B2B SaaS — AI-powered social CMS built for a German company

Tech: Next.js, NestJS, GraphQL, Hasura Cloud, PostgreSQL

- Delivered in 6 months, cutting content creation time by 70% across 100K+ content items in 3 languages

eBaggageDrop

IoT / AI — AI kiosk for automated baggage measurement

Tech: React.js, TensorFlow, OpenCV, Node.js, Socket.io, AWS

- Deployed in 15+ airports at 99.2% accuracy, processing 5M+ baggage items with sub-500ms AI processing

WebStack (thewebstack.com)

SaaS — Multi-tenant project management and CRM for agencies

Tech: Next.js, TypeScript, NestJS, PostgreSQL

- 100+ agencies and 500K+ tasks, with subdomain-based tenant isolation via JWT and RFC-compliant security

BPS Trading Platform

Fintech — built under MB Systems — Real-time crypto trading platform

Tech: React.js, Node.js, Binance API, Socket.io, MongoDB, AWS

- 10K+ users and \$2M+ trading volume, with 1000+ concurrent WebSocket connections and live multi-pair order streaming

Intuitive Surgical Dashboard (intuitive.com)

Medical Tech — Frontend dashboard for Da Vinci Xi and SP surgical systems

Tech: React.js, TypeScript, Redux, WebSocket, HIPAA compliance

- Used across 50K+ hospitals worldwide at 99.99% uptime, HIPAA compliant and internationalized into multiple languages including Japanese

Kexy Restaurants (getkexy.com)

SaaS — Restaurant management platform with ads and multi-vendor payouts

Tech: CakePHP, MySQL, Redis, Stripe Connect, Twilio, AWS

- 500+ restaurants and \$50M+ order volume, with 15 to 20% month-over-month revenue growth

Hey Buddy (heybuddy.io)

Mobile App — Pet GPS tracking and health monitoring app

Tech: Vue.js, React Native, Firebase, Mapbox, NFC APIs

- 50K+ downloads and \$500K ARR, holding a 4.6/5 rating and 92% 30-day retention

Rightful (rightful.com.au)

Legal Tech — Australia's legal services platform

Tech: React.js, TypeScript, Python (backend), WebSocket, Stripe

- Lighthouse score of 92/100 and WCAG 2.1 AA, with real-time video consultations and GIF-based, time-triggered UI animations

Collahead — Truck Driver Tracking

Logistics / Mobility — client project, discontinued before launch — React Native driver app with a companion monitoring website for live tracking

Tech: React Native, Mapbox Directions API, Node.js

- Built live GPS driver tracking with custom Mapbox geofenced triggers, modeled on Zomato/Blinkit-style delivery tracking

Freelance / Agency Client Work

Freelance — Independent client work outside his full-time role

Tech: Shopify, Next.js, Node.js, AI Agents

- Delivered e-commerce sites and AI agent builds end to end for local clients

EDUCATION

Bachelor of Engineering, Information Technology

Gujarat Technological University / SSGEC | 2022 | CGPA 9.0/10.0 | First Class with Distinction, highest campus placement package in his batch

CERTIFICATIONS & RECOGNITION

- Turing Certified Full Stack Developer
- GDG Mobile Track Winner, 2021
- TryHackMe, Top 6% Global Rank, 2021
- 60+ technical courses completed across AI, DevOps, cybersecurity, analytics, and web development
- 20+ technical articles published on Medium, 2K+ followers
- Open-source contributor in the React ecosystem
- Speaker, "Scalable Architecture," GDG Meetup 2022