

PREM JETHWA



Senior Full-Stack Engineer · AI / Agent Systems · 7 Years

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SUMMARY

Senior full-stack engineer with 7 years building production web and mobile applications, now focused on AI-agent systems and LLM tooling. SDE II at Brightstar Lottery, where I built an internal Jira-integrated AI bug-fixing agent and complete i18n for the mobile app. Outside work, I design autonomous-agent, multi-agent, and applied-ML systems on event-driven backends. Open to senior, founding-engineer, and AI-engineering roles — remote.

SKILLS

Languages & Frontend	TypeScript, JavaScript (ES2022), Node.js, React, React Native, Next.js, Redux / Saga, Tailwind CSS, Material UI
Backend & Architecture	Express.js, REST, GraphQL, BullMQ, event-driven queue / worker systems, WebSockets (Socket.io), API design, JWT / OAuth
AI / ML	LLM integration (Claude, GPT, Gemini), agent orchestration, multi-agent systems, applied ML (multi-armed bandits / Thompson sampling), prompt engineering
Data & Infra	MongoDB (Atlas), Redis, Docker, Railway, Cloudflare R2, CI/CD, self-hosted Linux / NAS, Git

EXPERIENCE

Brightstar Lottery — Software Engineer II (formerly IGT) Remote · May 2023 – Present

- Designed and built an internal Jira-integrated AI bug-fixing agent: pulls assigned tickets, works the fix with a human checkpoint at each step, and opens pull requests against the upstream and base projects.
- Owned features end to end — from story and requirements through implementation to live production release of the app.
- Built complete i18n for the React Native app: runtime locale switching, externalized translation catalogs, locale-aware date / number / currency formatting, and pluralization with fallbacks.
- Built PromoCode flows in React Native with Redux + Saga, streamlining promotional journeys and lifting user engagement.

Intertrust Group (Fintech) — Sr. Front-End Engineer · Consultant via Neointeraction Design Remote · Aug 2022 – Apr 2023

- Built a reusable React / TypeScript component that reduced code by 20% and bug incidence by 40%.
- Implemented a TypeScript validation hook that cut micro-frontend code by 40%; delivered across REST, Node.js, Webpack, Redux, and GraphQL under Agile / Scrum.

Viamagus Technology — Front-End Engineer Remote · Sep 2020 – Jul 2022

- Cut API response time on 20,000+ item lists from ~3s to ~1s (3x faster); reduced codebase ~95% on Tailwind-heavy files via a custom TypeScript class-generation algorithm.

Self-Employed (PJ Web Co) — Freelance Full-Stack Developer Remote · Jun 2019 – Sep 2020

- Built and optimized 7 client websites — cut hosting / email costs 60% and increased bookings 40% through responsive, accessible design.

SELECTED PROJECTS

- **Autonomous Software-Development Agent** — phase-based pipeline orchestrating Claude CLI subprocesses to build software; per-project FIFO queues, auto-scaling workers, request-scoped logging. (Node.js / TypeScript)
- **Multi-Agent Automation System** — separate GPT- and Gemini-backed agents over a shared messaging layer for sales and market analysis; each an independent, swappable service. (Node.js, LLM APIs)
- **Applied-ML Message-Optimization Engine** — real-time message-variant selection via a Thompson-sampling bandit with behavioral scoring; event-driven BullMQ / Redis + MongoDB (11+ models). (Node.js / TypeScript)
- **BillFlow** — GST / TDS billing for Indian tax compliance: GSTR-1 JSON export, Razorpay payments, and Form 26Q / NSDL FVU generation. (Node.js / TypeScript)

EDUCATION & CERTIFICATIONS

Bachelor of Computer Applications (BCA) — Yashwantrao Chavan Maharashtra Open University

Certifications — Modern React with Redux · The Complete Web Developer (Zero to Mastery) · Software Engineering Fundamentals