

HARSH PRAJAPATI

Backend & AI Systems Engineer · Distributed Systems · Node.js · PostgreSQL · Redis · AWS · LLM Integrations

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SUMMARY

Backend & AI Systems Engineer with 2.5+ years of experience building production-scale FinTech, AI, and real-time backend systems. Specialized in Node.js, PostgreSQL, Redis, RabbitMQ, distributed microservices, and event-driven architectures with proven impact in latency optimization, async workflow orchestration, and scalable API design. Hands-on experience integrating Gemini and OpenAI APIs for AI-powered workflows, image-processing systems, and LLM-assisted automation pipelines.

EDUCATION

MBIT – CVM University

Bachelor of Engineering in Computer Engineering

June 2020 – June 2024

Anand, Gujarat

WORK EXPERIENCE

WebMob Technologies

Software Developer

Dec 2023 – Present

Ahmedabad, India (On-site)

- Architected REST and GraphQL APIs across 4+ production projects, reducing P95 latency by 40% through Redis caching, query optimization, and indexing while consistently maintaining sub-100ms response times.
- Eliminated N+1 query bottlenecks across MongoDB and PostgreSQL by restructuring indexes and rewriting aggregation pipelines, delivering 2x faster query execution at production scale.
- Built event-driven workflows processing 5K–20K async jobs/day using RabbitMQ and Redis Pub/Sub, reducing database read pressure by 40% across critical backend services.
- Integrated Gemini and OpenAI APIs into production workflows for AI-assisted search, media processing, recommendation systems, and structured automation pipelines.
- Integrated Stripe, iDenfy KYC/KYB, OAuth (Google, Apple, Facebook), and AWS S3 presigned URL pipelines managing 10K+ financial artifacts with secure access controls.
- Implemented distributed locking and queue-based orchestration to prevent race conditions during concurrent financial transaction updates and repayment workflows.

PROJECTS

Loan Marketplace Platform (FinTech) | Node.js, PostgreSQL, Redis, RabbitMQ, AWS S3, WebSockets, Stripe

- Architected lending APIs for loan matching, collateral management, repayment orchestration, and counter-offer workflows; built real-time 4-party WebSocket communication achieving sub-50ms message delivery.
- Designed distributed locking mechanisms eliminating race conditions during credit balance updates and repayment state transitions in concurrent environments.

Real Estate Multi-Bank Co-Lending Platform | Node.js, PostgreSQL, Redis, RabbitMQ, Stripe, Wise, AWS, WebSockets

- Architected co-lending backend across 5+ financial institutions with event-driven orchestration, RBAC-based repayment scheduling, and 25+ domain entity schemas; reduced P99 latency by 45% with multi-level Redis caching.
- Integrated Stripe and Wise payment workflows supporting secure repayment handling, transaction reconciliation, and cross-service financial event synchronization.

AI Home-Design & Commerce Platform | Python, React.js, AWS S3, Gemini API, OpenAI API, WebSockets

- Built AI-powered image-processing pipelines (virtual staging, day-to-dusk, background removal) using Gemini APIs; integrated OpenAI-powered vendor discovery with structured prompt pipelines and analytics ingestion from Google Analytics and App Store Connect via cron jobs.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Python, SQL

Backend/API: Node.js, Express.js, FastAPI, REST APIs, GraphQL, WebSockets, Socket.IO, Microservices, Distributed Systems

Messaging & Cache: RabbitMQ, Redis (Caching/Pub/Sub), Event-Driven Architecture, Background Workers

Databases: PostgreSQL, MongoDB, MySQL, Sequelize, Prisma, Query Optimization, Indexing

Cloud/Infra: AWS (EC2, S3, Lambda), Docker, CI/CD, Git, Linux

AI & LLM Integrations: Gemini API, OpenAI API, Claude Code CLI, MCP Workflows, Prompt Engineering, AI Automation Pipelines

Frontend: React.js, Redux Toolkit, React Router, Electron.js, HTML/CSS, Ant Design

ACHIEVEMENTS & CERTIFICATIONS

- Team Player Recognition – WebMob Technologies (Jul 2025):** Recognized for backend API ownership, Claude Code CLI adoption, and consistent cross-team delivery across production systems.
- LeetCode 50 Days Badge 2024:** Top 6.9% globally for consistent algorithmic problem solving and coding practice.
- Problem Solving:** Solved 300+ DSA problems across LeetCode and HackerRank focused on graphs, dynamic programming, and backend-oriented system problem solving.
- Certifications:** JavaScript (Google Coursera) · Machine Learning (SkillUp) · Python Problem Solving (HackerRank)