

HARSH MODI

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Summary

Full-stack Software Engineer focused on scalable APIs, real-time systems, and clean DX. Strengths across TypeScript/Node.js, React/Next.js, Prisma/PostgreSQL, MongoDB, Docker, and AWS. Ship with CI/CD, balancing performance, reliability, security, and developer velocity.

Technical Skills

Languages	TypeScript, JavaScript (ES6+), Python, SQL
Frameworks/UI	Node.js, Express, React, Next.js, HTML/CSS
Databases	PostgreSQL, MongoDB, MySQL
Cloud/DevOps	AWS, Docker, GitHub Actions/Jenkins, Terraform (basics)
APIs/Realtime	REST, WebSockets/Socket.IO
Tooling	Git/GitHub, Prisma ORM, Postman, Redux, Tailwind, Bootstrap, Figma
Testing/Quality	Unit/Integration tests, CI, Code review, Agile/Scrum

Professional Experience

Software Engineer — Shoptaki Inc.

04/2025 -- Present | New York, NY

- Built a local-first messaging microservice (Node.js/Express, Socket.IO) with file-system storage and gateway-verified identity; **delivered 20+** REST APIs; Dockerized and removed DB/Prisma (zero DB ops).
- Secured the stack with Zod validation, rate limiting, Helmet, request correlation (**x-request-id**), and AES-GCM encryption with HKDF per-message keys; **implemented** delete-for-me/everyone TTLs; privacy-safe contact discovery using salted SHA-256; PQC-ready (Kyber, Dilithium).
- Engineered contact-discovery flow using in-memory index + TTL cache with batch/concurrency controls; measured **5--10 ms** per-hash match latency with no database round trips.
- Instrumented ops with Prometheus metrics, structured logs (**Morgan HTTP logger**), health and metrics endpoints, storage quotas, and per-route limits; sustained **~1,500 messages per second** at p95 ≤ 25 ms in load tests.
- Orchestrated a five-service Docker Compose stack (**Master, User, Auth (PASETO), API Gateway (JWKS), Messaging**) with secure service-to-service calls; **published** a Postman suite, operational playbooks, and API docs.

Software Engineer Intern — Sensegood Instruments Pvt. Ltd.

02/2023 -- 05/2023 | Gujarat, India

- Designed and **released** responsive UI in React/Figma; applied code-splitting and asset optimization to lift TTI **40%**.
- Elevated accessibility (focus states, contrast, ARIA labels) to meet internal usability thresholds; documented patterns for the team.
- Refactored hot paths and **created** indexes to cut query time during peak load **70%**; stabilized throughput.
- Coordinated REST contracts (errors, pagination) with backend; enabled parallel frontend delivery and predictable QA.

Projects & Open Source

PROJECT **Squaddle** — Team Matchmaking Platform (MERN) — [GitHub](#)

07/2024 -- 10/2024 | Remote

- Built a matchmaking web app blending Tinder-style swiping with LinkedIn-style profiles to form project teams; drove a **25%** lift in collaboration and notable growth in task sharing among early users.
- Optimized React/Express/MongoDB data flow (selector **caching (memoization)**, indexed queries, lean payloads) to cut local load times by **40%** and maintain smooth interaction under rising engagement.
- Implemented role-based rooms, profile completeness scoring, and activity feeds; **implemented** error envelopes, request validation, and structured logging for maintainability.

OPEN SOURCE **Microsoft TypeScript-Go** — Contributor

2025 | Remote

- Expanded parser coverage for BigInt literals (binary/octal/hex) and malformed-input paths; aligned error texts with upstream TS, authored high-signal unit tests, and fortified edge-case handling **20%**.

OPEN SOURCE **RedwoodJS Framework** — Contributor

2025 | Remote

- Refactored CLI TUI prompt handlers for testability; enforced stricter validation, clearer help/error text, *cancellable* prompts, and smoother spinner/progress UX; authored docs/examples to accelerate contributor onboarding.

Certifications

- Front-End Apps with React** — IBM (2023) [Certificate](#)
- Python Data Structures** — University of Michigan (2021) [Certificate](#)

Education

M.S., Computer Science (GPA: 3.97/4.00) — Pace University

07/2023 -- 05/2025 | New York, NY

B.Tech, Computer Science (GPA: 3.23/4.00) — Ahmedabad University

07/2019 -- 06/2023 | Gujarat, India

Leadership & Community

Invincible NGO — Volunteered; coordinated logistics for nationwide trekking camps and briefed participants on safety and routes.