

VIRAL DESHLE

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PROFESSIONAL SUMMARY

Full-stack developer with **3 years of experience** building **real-time and scalable architectures, and responsive large-scale web platforms** end-to-end. Comfortable owning features across the **full SDLC** — while **leading teams** and shipping on tight timelines without sacrificing **stability, performance, or code quality**. Driven by **impact-first thinking** — focused on **measurable outcomes**, and solving the right problems at the right layer.

SKILLS

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

Frontend: React.js, Next.js, Tailwind CSS, Responsive Design, Web Accessibility

Backend: Node.js, Express.js, NestJS, FastAPI, REST APIs, GraphQL, WebSockets, WebRTC

Databases: PostgreSQL, MongoDB, DynamoDB, Redis, Elasticsearch

Cloud & DevOps: AWS, Docker, CI/CD, GitHub Actions, Vercel, Terraform

Architecture: Microservices, Event-Driven Systems, Real-Time Systems, Distributed Systems, System Design

AI & MCP: MCP (Model Context Protocol), FastMCP, Anthropic Claude API, LLM Tool Design

Tools: Git, GitHub, Jira, Agile/Scrum, Claude Code, Cursor

EXPERIENCE

Full Stack Developer — Tech Lead

Dec 2024 – Present

[devx labs](#), Surat

- Spearheaded end-to-end delivery of a production-grade **POS platform** deployed across **170+ retail stores** processing **800+ daily orders** — built on React.js, Next.js, GraphQL, and AWS serverless stack (Lambda, ECS, API Gateway, DynamoDB, Cognito).
- Developed and maintained a **B2C e-commerce platform** on Next.js, Strapi CMS, and Shopify OMS — serving **100K+ daily active users** with **1K+ daily orders**, scaling to **1M+ users** and **10K+ orders/day** during peak sale events with zero downtime.
- Integrated **6+ payment gateways** — Razorpay, PayU, Snapmint, Pine Labs POS, Gyftr, and cash — unifying checkout across online and in-store flows.
- Architected a real-time **Order Editing workflow** on AWS Step Functions, reducing CRM manual workload by **60%** through event-driven approval pipelines.
- Integrated Google Maps APIs for geolocation capture and address normalization, decreasing delivery failures by **60%** across active retail zones.
- Developed a high-throughput **DynamoDB indexing strategy** tracking **7M+ coupons**, optimizing partition keys and access patterns for efficient queries at scale.
- Replaced AWS CloudFront with a custom Shopify CDN integration via Strapi plugin, eliminating **\$6,000/month** in recurring infrastructure costs.
- Integrated **8+ third-party services** spanning communication (WhatsApp/SMS/Email via Gupshup), analytics (Mixpanel, WebEngage, GTM, Google Analytics), logistics (ClickPost EDD), and warehouse management (EasyEcom).
- Hardened production systems with API Gateway rate limiting, secure credential management (SSM, Secrets Manager), and CloudWatch observability — served as **first responder** for production incidents and client escalations.
- Mentored a team of **3 developers**, conducted **system design and DSA interviews** for hiring, led **Next.js 15 → 16 migration**, and authored architecture design and onboarding documentation.

- Engineered a **real-time communication platform** (live chat, community Q&A, presence tracking) serving **45K concurrent users** and **240K unique users**, processing **30M+ messages** — built on Node.js, React.js, Socket.IO, and Redis pub/sub adapter for horizontal scaling across distributed server instances.
- Developed **Narad.io** — a notification module built from scratch — delivering real-time system alerts and user events with **sub-second latency**.
- Hardened the messaging layer with offline message queuing, priority delivery, and connection-level rate limiting to sustain high-concurrency production loads.
- Built **3 embeddable accessibility widgets** and an AWS Lambda-based website accessibility testing service — deployable via script injection for zero-install, cross-browser third-party integration.
- Designed data-heavy real-time dashboards; validated system stability on a chaos testing platform simulating **millions of concurrent WebSocket connections** to surface latency and drop patterns pre-production.
- Built a **WebRTC peer-to-peer video** communication prototype using native browser APIs — eliminating third-party SDK dependencies and licensing overhead.

PROJECTS

PostgreSQL MCP Server

[Live Demo](#)

Python, FastMCP, asyncpg, React, Railway, MCP Protocol

- Built a production-ready **MCP server** that gives LLMs (Claude, GPT, etc.) live, structured access to any PostgreSQL database — exposing **10 tools** across schema discovery, query execution, performance analysis, and DB health monitoring.
- Shipped a **n1_to_sql prompt** enforcing SQL best practices — no **SELECT ***, aliased JOINS, and chain-of-thought reasoning before query generation.
- Enforced **multi-layer read-only sandboxing**: DB-level `mcp_readonly` role, app-level query validator blocking all mutation patterns, auto-injected **LIMIT**, and a 5-second execution timeout.
- Secured connection strings with **AES-256-GCM** encryption on the frontend, transmitted as custom headers and decrypted per-request — no credentials ever stored server-side (**Bring Your Own Database** model).

Real-Time Stock Screener

[Live Demo](#) · [GitHub](#)

Next.js 16, TypeScript, WebSockets, Finnhub API

- Built a live equity dashboard streaming **25+ stocks** via Finnhub WebSocket with real-time price, market cap, P/E, and 52-week range.
- Leveraged Next.js `use cache` and **Partial Pre-Rendering**, achieving **90%+ cache hit rate** on static profiles and staying within Finnhub's 60 calls/min cap.
- Designed **URL-driven filters** enabling shareable, refresh-persistent filtered views.

Socket Server Scaling — Architecture Deep Dive

[YouTube](#)

Node.js, Socket.IO, Redis, Distributed Systems

- Published a technical walkthrough on horizontal WebSocket scaling — Redis pub/sub adapter mechanics, sticky sessions, and multi-instance deployment strategies.

CERTIFICATIONS

AWS Certified Developer – Associate

Feb 2026

Score: **888/1000** [Credential Link](#)

EDUCATION

Gujarat Technological University
B.Tech in Computer Science

2019 – 2023
CGPA: **9.17**