VIVEK SHAH

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[Mail me](#) ◊ [LinkedIn](#) ◊ [Portfolio](#) ◊ [Github](#) ◊ [Leetcode](#) ◊ [Medium](#)

EDUCATION

Bachelor of Technology, Pandit Deendayal Energy University — 2021 - 2025

SKILLS

Basic:	Redux, Zustand, ReactJS, NextJS, AWS, Azure, GOLang, OOP, SQL
Intermediate:	Redis, Gen AI applications and Agents, Java, Playwright/ Selenium, gRPC, Socket.io
Advanced:	Typescript, ExpressJS, NodeJS, Javascript, Python, FastAPI, Data Structure and Algorithms
Tools:	Docker, Linux, Bash, Git, Github, Postman, MongoDB, Firebase, Pinecone, Jest, ORM, Loki + Grafana

EXPERIENCE

Backend Engineering Lead — July 2024 - Present
TechStack — *Remote, India*

- Architected and led the development of a scalable microlithic ecosystem, including comprehensive database schema design and DevOps pipelines. Spearheaded the project from inception to a fully operational, production-grade application.
- Integrated streaming APIs with LLMs, adding AI-driven capabilities; implemented OpenTelemetry with Loki Grafana for real-time logging, alerting, and dashboards.
- Built async Redis queue workers for AI-powered B2B prospect enrichment, boosting data quality and automation.

Full-Stack Developer Intern — Apr 2024 - July 2024
Reverr — *Remote, India*

- Developed AI-powered workforce (agents) across domains, using typescript and leveraging OpenAI and GenAI, resulting in faster customer query responses via WhatsApp integration.
- Utilized Meta API for WhatsApp Integration and implemented Pinecone for better contextual searches over the database.

Software Development Engineer Intern — May 2024 - July 2024
Devobase — *Remote, India*

- Built subscription and customer management platform for [Zeiirman Trading](#). Migrated a 650+ users database.
- Integrated Stripe, TradingView API, Discord bot, and used Jest and SuperTest for tests, cutting manual tasks by 70%.

PROJECTS

[**MathScribe - Smart Math Notes**](#) Developed an AI-powered solution for solving math and physics problems from user-drawn sketches and equations, utilizing client-server architecture, image processing, and LLMs for dynamic problem solving.

[**FinanSync: Streamlined Billing Management**](#) A comprehensive billing system built with the MERN stack, enabling users to manage invoices, bills, and quotations. Features include customer info, due dates, reminders, tax calculations, multiple currencies, and a dashboard graph. Improves financial oversight and customer management efficiency.

[**Isolated Falcon: (SIH Finals Project)**](#) Collaborated on fine-tuning the language model, and created an offline Large Language Model tool which can summarize PDFs, chat with context, leveraging my expertise to optimize its capabilities and contribute to its recognition in the SIH Finals where it achieved a top 5 position out of 44,000 teams.

[**In-House Redis**](#) Designed, developed and Open-Sourced a [Redis CLI entirely in TypeScript](#), integrating complex data structures like stacks, queues, linked lists, and streams. Implemented key features including Pub/Sub messaging, RDBMS persistence, and stream processing. Enhanced the server's functionality by replication (REPLCONF, PSYNC), and robust transactional support.

MINI PROJECTS

[LMS gamified with AI](#), [Student Assistance Bot Made for Rajasthan Govt.](#), [Company Portfolio](#), [Browser Session management extension](#), [NodeNuker: A Dev-Ex Tool](#), [Email Scheduling Service](#), [In-House Oracle built with Rust](#)

AWARDS & CERTIFICATIONS

- Startup incubated at [PDEU IIC](#) for funding.
- Winner at the IDE Bootcamp organized 2024 by AICTE and ministry of Education, Govt of India.
- [Codeforces](#): Pupil(1200) [Leetcode](#): Knight(max rating: 2011), [Leetcode Biweekly 129](#) Global Rank 74, AIR 11/22777.
- Analyzed cybersecurity threats as an [IBM CyberSecurity Analyst:](#) from September 14, 2023.
- Achieved Finalist status at [SIH](#) (Smart India Hackathon), [SSIP](#), Dotslash 6.0 and Tic-Tech-Toe.