

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, C, C++, Zustand, ReactJS, NextJS, AWS, Azure
Intermediate: Redis, REST, Meta API, Gen AI applications, Java, Rust Lang, Tokio, Playwright
Advanced: Typescript, ExpressJS, NodeJS, Javascript, Python, FastAPI, Data Structure and Algorithms
Tools: Docker, Linux, Bash, Git, Github, Postman, MongoDB, Firebase, Pinecone, Jest, Rollbar, ORM

EXPERIENCE

Software Development Engineer (SDE) Intern
TechStack

July 2024 - Present
Remote, India

- Designed and built multiple microservices with microlithic architecture, leading to lower latency rates upto 70%.
- Integrated advanced streaming APIs with AI-powered Large Language Models (LLMs) and implemented Co-Browsing sessions (e.g., Anydesk) and LiveChat API for customer support, enhancing user interaction and satisfaction.
- Created web UI automation using several generative AI tools, incorporating [Large Action Models \(LAMs\)](#) for self-correcting workflows, which reduced the need for manual intervention by 80% and improved system reliability.

Full-Stack Developer Intern
Reverr

Apr 2024 - July 2024
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
Devobase

May 2024 - July 2024
Remote, India

- Built subscription and customer management platform for [Zeirman 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.](#), [Product Catalogue](#), [Browser Session management extension](#), [NodeNuker: A Dev 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.