

Vishu Vishal Banotra

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About

Full-Stack Developer experienced in building secure, scalable web applications across frontend and backend systems. Experienced with React, Next.js, Node.js, REST APIs, authentication, databases and background processing. Passionate about building reliable systems with clean, maintainable code.

Skills

Languages: JavaScript (ES6+), TypeScript, SQL, HTML5, CSS3

Frontend: React.js, Next.js, Redux Toolkit, React Router, Tailwind CSS, Material UI, SASS

Backend: Node.js, Express, Prisma ORM, PostgreSQL, MongoDB, Mongoose, JWT, NextAuth.js, REST APIs, Web-Sockets, Redis, BullMQ

Tools: Docker, Git, GitHub, Webpack, API Integration

Work Experience

Vodex.ai, Bangalore

July 2024 – November 2025

Software Developer

- Designed and developed the complete **UI/UX flow for an AI agentic calling workflow builder from scratch**, creating a data-dense visual interface for configuring workflow triggers, actions, conditions, delays, webhooks, and workflow transitions using **ReactFlow v11**.
- Engineered the dynamic workflow editor using **ReactFlow v11** and **Redux Toolkit**, implementing configurable node creation, dynamic node insertion and reconnection, and synchronized node/edge state management.
- Implemented a **hybrid RSA–AES encryption layer** to secure API communication, combining asymmetric key exchange with symmetric encryption for efficient payload protection.
- Rebuilt the legacy application UI using **React.js** and **Material UI (MUI)**, translating Figma designs into reusable, responsive components and establishing consistent UI patterns across the platform.
- Worked closely with **backend engineers** to coordinate API contracts and data flows, integrate frontend functionality with back-end services, and troubleshoot cross-layer issues to deliver features reliably.
- Tech:** HTML, CSS, Javascript, TypeScript, React.js, Redux Toolkit, Node.js, REST APIs, ReactFlow v11, MUI

Project Work

Subtend 🔗

Personal Project

Full-Stack Team Collaboration Platform

- Built a full-stack team collaboration platform with a **workspace, team, project, and issue** structure using **Next.js, Node.js, Express, PostgreSQL**, and **Prisma ORM**.
- Implemented secure authentication using **JWT Access Tokens, Refresh Tokens**, and custom **Google OAuth 2.0** with HTTP-only cookies, token rotation, and protected API routes.
- Built **RBAC**, invitation-based onboarding, and asynchronous email processing using **Resend, BullMQ**, and **Redis** for workspace and member management.
- Developed an **issue attention system** and activity tracking to surface issues requiring attention and record changes to status, priority, assignment, and issue details.
- Integrated **GitHub** with project-level repository connections and webhooks to track commits pushed and merged pull requests, linking GitHub activity to issues through ticket references.
- Implemented **soft deletion** for teams and projects with Trash-based restoration and permanent deletion, using scheduled **BullMQ** jobs for background cleanup.
- Tech:** Next.js, TypeScript, Node.js, Express, Prisma ORM, PostgreSQL, Redis, BullMQ, JWT, Google OAuth 2.0, Tailwind CSS, Resend API

The Cake Shop 🔗

Personal Project

MERN Stack E-commerce Platform

- Built a full-stack e-commerce platform with secure payment integration using **Razorpay API**.
- Implemented **JWT authentication** and **Role-Based Access Control (RBAC)** for secure user and admin access management.
- Developed scalable **RESTful APIs** using **Node.js** and **Express**, integrating **MongoDB** for efficient data persistence.
- Built responsive interfaces using **React.js** and **Redux** for seamless user interaction.
- Tech:** React.js, Redux, Node.js, Express, MongoDB, JWT, Razorpay API

Education

Chandigarh Group of Colleges, Mohali

Aug 2016 – Jun 2020

B.Tech in Electronics and Communication Engineering