

Pratosh B

+91 87780 62251 | [linkedin.com/in/pratosh22](https://www.linkedin.com/in/pratosh22) | github.com/pratosh22 | pradosh.balaji@gmail.com | pratosh.dev

EDUCATION

Sri Venkateswara College of Engineering

Bachelor of Engineering in Computer Science Engineering

Sriperumbudur, Tamil Nadu

2020 – 2024

EXPERIENCE

Founding Engineer

Jun 2024 – Present

SparrowDesk (SurveySparrow)

Chennai, India

- Joined as the founding frontend engineer — built the entire product foundation from scratch including the TypeScript monorepo, bundler toolchain, state management, i18n, and observability layers still used by the team today
- Shipped 12 customer-facing product surfaces end-to-end — ticketing, knowledge base, workflow automation, live chat, inbox, and an embeddable chat widget — directly enabling the platform's first paying customers
- Built and own the AI agent platform that autonomously resolves customer conversations across chat and email, reducing average resolution time and support workload for end customers
- Developed third-party integrations (Notion, Shopify) with a unified OAuth layer and encrypted credential storage, expanding the platform's reach into customers' existing tool ecosystems
- Expanded into backend engineering and became the leading contributor across both repositories — owning modules, database design, background job pipelines, and performance optimisations at scale

Software Engineering Intern

Sep 2023 – Jun 2024

SurveySparrow

Kochi, India

- Contributed to Twigs, SurveySparrow's open-source React component library powering 4+ B2B SaaS products and used daily by 150+ developers — building and maintaining 40+ accessible, themeable, production-grade components
- Led early R&D on a high-performance Datagrid for millions of rows and hundreds of columns — evaluated AG Grid, SlickGrid, and TanStack Table, prototyping row grouping, pivoting, and virtual scrolling
- Kickstarted the Wings AI module — scoped, built, and shipped multiple AI-powered features to production, now used by thousands of end users across the platform

PROJECTS

Synth — Collaborative Whiteboard | React, TypeScript, Yjs CRDT, WebSocket, Canvas API

- Real-time multiplayer whiteboard built on conflict-free replicated data types (Yjs) for seamless collaboration without merge conflicts
- Implemented WebSocket transport layer for live cursor tracking, shape synchronisation, and presence awareness across connected clients

Shelf — Reading Tracker | React, TypeScript, IndexedDB, Tailwind

- Minimal offline-first app to track books, reading progress, and personal notes with seamless sync when connectivity resumes
- Built with IndexedDB for persistent local storage and a clean Tailwind-based UI optimised for mobile reading workflows

ACHIEVEMENTS

- **Cruising and Crushing Award — 2025:** Awarded for outstanding engineering contributions at SparrowDesk
- **NIT Trichy Pragyana — WebWars:** 3rd place among 100+ colleges
- **PSG Hackfest:** 4th place at national-level hackathon among 300 teams

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, C++, HTML/CSS, SQL

Frontend: React 18, TanStack Query, Redux Toolkit, React Router v7, Lexical, ReactFlow, Rspack/SWC, Biome

Backend: Node.js, Express, Inversify, Sequelize, BullMQ, Socket.io, Vercel AI SDK

Databases: PostgreSQL, Redis, DynamoDB, OpenSearch, MongoDB

Cloud & Infra: AWS Lambda, STS, S3, SQS, Sentry, New Relic, PostHog, Git