

Prathamesh Sirdesai

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Education

Masters of Computer Applications, PES University, Bengaluru 2024 – 2026
Coursework: Advanced Data Structures and Algorithms, System Design, Operating Systems, Database Management Systems

Bachelor of Computer Applications, KLS Gogte College of Commerce, Belagavi 2021 – 2024
CGPA: 8.1

Experience

Software Developer — Maximal Studio, Remote Dec 2024 – Aug 2025

- Built and optimized CI/CD pipelines using GitHub Actions, Docker, and AWS/Vercel, reducing deployment errors by 30%.
- Refactored API logic in Go and Node.js, improving response times by 40% and enhancing scalability for high-traffic client applications.

Backend Developer — Earning Edge, Belgaum Jul 2024 – Oct 2024

- Engineered a trade-journal platform with domain-driven design and a scalable API layer in TypeScript, improving developer productivity by 25% through compile-time safety and modular architecture.
- Designed RESTful backend integrations with normalized data flow, enabling seamless handling of 10,000+ trades/positions daily and reducing query response time by 35%.

Projects

UpcharAI – Multilingual WhatsApp Hospital Assistant — Next.js, Supabase, Twilio, GenAI [\[GitHub\]](#)

- Built an agentic AI pipeline (understand → plan → act) for autonomous appointment booking, FAQs, and reminders.
- Integrated Supabase persistence and Twilio API for secure, scalable multilingual interactions; reduced scheduling time by 30%.

RedisGO – Distributed In-Memory Data Store — Go, TCP Networking, Concurrency [\[GitHub\]](#)

- Implemented core Redis protocol with TCP server handling concurrent connections using goroutines.
- Added TTL expiration and AOF logging for crash recovery.

Mentor AI – AI-powered educational platform — Next.js, WebLLM, Clerk, Supabase, GenAI [\[Live\]](#)[\[GitHub\]](#)

- Integrated an in-browser LLM (WebLLM) to deliver personalized insights, increasing user engagement by 40% through contextual learning recommendations.
- Built Google Calendar MCP sync for reminders and task management, cutting manual scheduling time by 50% with GenAI-driven summaries and roadmaps.

Macroscopicso – Market Map Builder (Client Project) — Next.js, Tailwind, Supabase [\[Live\]](#)

- Built an interactive drag-and-drop canvas system with HTML5 Canvas API for hierarchical market maps.
- Implemented multi-tenant architecture with isolated schemas, and real-time collaboration via Supabase, enabling 50+ users to collaborate and improving security by 100%.

Skills

Languages: TypeScript, Go, Java, Python, SQL, C/C++, Bash

Frameworks & Libraries: Next.js, React, React Native, Express.js, Flask, FastAPI

AI/ML: GenAI APIs, RAG, AI Agents, LangChain, PyTorch

Databases: PostgreSQL, MongoDB, Supabase, Redis, Vector Databases (ChromaDB)

Cloud & Tools: Git, Docker, AWS, Kubernetes, Jest, Vercel, CI/CD (GitHub Actions), Linux

Achievements

6× Hackathon Winner/Finalist — 10× Coding and CTF Competition Winner