

Himanshu Jaroli

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EXPERIENCE

RapidStart Pty. Ltd., Melbourne (Remote)

SDE 2 – MAR 2025 – PRESENT

TypeScript, Python, Next.js, FastAPI, Node.js, Express.js, Langgraph, MCP, Docker

- Spearheaded the design and implementation of a **hierarchical multi-agent graph** using **LangGraph** to respond to user queries dynamically using **multi-agent task chaining** and **MCP Servers**.
- Built end-to-end UI components and backend services for an **AI phone agent** platform that automates **inbound call handling** and **outbound communications** processing **10K+** calls monthly.
- Built an **autonomous task execution agent** capable of interpreting and performing complex computer operations on behalf of users, leveraging vision models like **OmniParser** and **LLM's**
- Created **VNC** system for live streaming and remote access to the remote agent system.

Tata Consultancy Services, Pune

Product Engineer – DEC 2023 – FEB 2025

TypeScript, React.js, Shadcn, Tailwind CSS, Node.js, Express.js, PostgreSQL, Prisma, Next.js

- Contributed to a **SaaS** platform for high-quality product delivery and talent engagement.
- Worked closely with the design team to ensure **consistent & high-quality UI** in **React.js** and implemented UI components like **conversational AI workbench**, **artifact viewers**, **code editors** etc.
- Developed a suite of **REST APIs** in **Node.js** using **Express.js** and performed **optimizations** reducing the server response time by **20%**.
- Developed **AI Agents** using **Next.js**, **Vercel AI SDK**, **GPT-4o**, **Llama embedding models** and **Qdrant vector store** reducing user's job execution time by **62%**.

Software Engineer – AUG 2022 – NOV 2023

TypeScript, React.js, Material UI, Tailwind CSS, Java, Spring boot

- Worked on a product focused on developing **digital experiences** through high-level **intent specification** reducing the development time by nearly **85%** (from 2 weeks to 2 days)..
- Developed **end-to-end application features**, including comprehensive **APIs** in **Java (Spring Boot)** and frontend solutions in **React.js** for **no code development**.
- Utilized **GPT-4** models for creating **generative assistance** for users improving developer productivity by **60%**..
- Built a **VS Code extension** to support, assist and augment intent specification creation.

Tata Consultancy Services, Kolkata (Remote)

Project Intern – JUN 2021 – AUG 2021

JavaScript, React.js, react-three-fiber, Material UI, Python, OpenCV, MediaPipe

- Developed a **Virtual Trial Room** application enabling users to try on clothes using **AR** technology using **React.js** and **Python** to superimpose **3D** clothing models, achieving a success rate of **94%**.

EDUCATION

Bharati Vidyapeeth University, Pune JUL 2018 – JUL 2022

B.Tech in **Computer Science and Business Systems** | **CGPA – 9.26**

SKILLS

- **Languages:** TypeScript, JavaScript, Java, Python, HTML/CSS
- **Technologies:** React.js, Next.js, FastAPI, Node.js, Express.js, Docker, PostgreSQL, MongoDB, Langgraph, JEST, GIT, AWS, GCP, Kafka, Zustand, React Query, Prisma, Tailwind CSS
- **Concepts:** Design Patterns, REST API, Agile development, Micro service architecture, Flux, Component-based architecture, Distributed Systems, Root Cause analysis.

PROJECTS

- **Call-buddy** – *React.js, Firebase, WebRTC* <https://call-buddy-two.vercel.app>
A seamless video calling application powered by WebRTC
- **Naukri Outreach** – *React.js, Express.js, Gemini, Supabase, Redis, MQ* <https://naukri-outreach.vercel.app>
A seamless video calling application powered by WebRTC

SKILLS

- Received **Innovation Award** from **TCS CTO, Dr. Harrick Vin** for Glow framework assistance.
- Mentored a team of 4 engineers on coding best practices and architectural patterns.