

# MANOJ NAIK

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## PROFESSIONAL SUMMARY

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Recent Computer Science graduate specializing in full-stack AI applications. Proven expertise in Python (FastAPI) and TypeScript (Next.js) through award-winning hackathon projects and open-source contributions. Skilled in developing end-to-end solutions, from RAG systems to cloud-based deployments with Docker and GitHub Actions.

## EDUCATION

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**Bachelor of Engineering, Computer Science** 2021 - 2025 Srinivas Institute of Technology, Mangalore

**PUC, Computer Science** 2019 - 2021 Govt PU College, Byndoor

## PROFESSIONAL EXPERIENCE

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**Software Development Intern** Feb 2025 – May 2025  
Ukshati Technologies Pvt Ltd *Mangalore*

- Designed and developed an internal dashboard to monitor an automated plant watering system, integrating real-time sensor data from Arduino boards.
- Implemented dynamic data visualizations and an intuitive UI, improving operational oversight and data accuracy for the engineering team.

**Full Stack Developer Intern** Oct 2023 - Nov 2023 Samagra Technologies *Mangalore*

- Developed and deployed full-stack features for a core web application using Next.js and FastAPI, contributing to the product roadmap.
- Implemented a user authentication system and integrated multiple third-party APIs to expand platform functionality.
- Contributed to an Agile lifecycle, including sprint planning and code reviews, and authored API documentation.

**Open Source Contributor** 2024 - Present

- Contribute bug fixes and feature enhancements to open-source projects on GitHub, focusing on web development and AI.

## PROJECTS

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**Manim Animation Agent** [GitHub Link](#)

- Developed an end-to-end AI agent to automate animation creation using a Next.js frontend and a Python/FastAPI backend.
- Created a scalable, asynchronous video rendering pipeline with Docker and GitHub Actions for free, cloud-based processing.
- Implemented a RAG system with FAISS to query Manim documentation, improving the accuracy of AI-generated code.
- Tech Stack:** Python, FastAPI, Next.js, Manim, Gemini API, Appwrite, Docker, GitHub Actions, RAG.

**EchoVerse AI Learning Hub (Bolt.new Hackathon Project)** [Live Link](#) — [GitHub](#)

- Rapidly developed a full-stack AI learning platform from concept to deployment in a one-month solo sprint for the Bolt.new hackathon.
- Integrated multiple AI services (Google Gemini, Tavus, ElevenLabs, Firecrawl) to create an autonomous research agent, interactive video conversations, and a personalized learning engine.

- Built a secure, serverless backend on Supabase, writing custom SQL migrations and implementing Row-Level Security (RLS) policies to ensure user data privacy.
- Created a role-based admin dashboard for user management, system-wide feature flagging, and platform activity monitoring.
- **Tech Stack:** React, TypeScript, Vite, Supabase (Auth, Postgres, Storage, Edge Functions), Deno, SQL, Google Gemini, Tavus AI, ElevenLabs, Tailwind CSS, shadcn/ui.

### **Bolt.new (Hackathon Winner)**

- Designed and developed a rapid UI component generator, winning a runner-up prize in a 48-hour hackathon.
- Built an interactive and polished user interface using React, praised for its design and user experience.
- **Tech Stack:** React, TailwindCSS.

## **ACHIEVEMENTS & CERTIFICATIONS**

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**Hackathon Winner:** Awarded Runner-up & \$500 prize in the Bolt.new Hackathon for an innovative web application.

**Hackathon Winner:** Secured 2nd Runner-up in an Inter-College Hackathon for an AI-Driven Interview System.

**Security Vulnerability Disclosure:** Identified and responsibly disclosed a critical XSS vulnerability in a government website, receiving official acknowledgment.

**Microsoft Certified:** Azure Data Fundamentals (DP-900).

## **TECHNICAL SKILLS**

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- **Languages:** Python, JavaScript, TypeScript, HTML/CSS, PHP, C
- **Frontend:** Next.js, React.js, TailwindCSS, Framer Motion, HTML5, CSS3
- **Backend:** FastAPI, Express.js, Node.js, Appwrite (BaaS)
- **AI & ML:** AI Agent Design, RAG, Google Gemini API, Vector Databases (FAISS)
- **Databases:** MySQL, PostgreSQL, MongoDB
- **DevOps & Tools:** Docker, Git, GitHub Actions, Vercel, Postman, VS Code

## **EXTRACURRICULAR**

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- **Workshop Lead:** Planned and delivered a hands-on Full Stack Development workshop to over 30 junior students on HTML, CSS, and JS.