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Introduction

Self-taught Full Stack Developer, App Developer, DevOps, AI Engineer, and FOSS enthusiast

Freelancer and Open Source Contributor. Lead FOSS, Tech & Entrepreneurship communities in campus. Recently started working in startup as CTO.

Education

St Joseph's College of Engineering & Technology, Palai Nov 2021 – June 2025

- BTech in Artificial Intelligence & Data Science
- CGPA: 8.11
- Minor Degree in Robotics
- **Coursework:** Artificial Intelligence, Computer Network, OOPs, DSA, Machine Learning, Deep Learning, NLP

Work Experience

Creator, FindMyCrush App Feb 2025 – Present

- Built and published a fun dating app for college students.
- Marketed the app in colleges and got 1700+ downloads in first month.
- Used tech stack Expo, React Native, & Postgres.

Chief Technical Officer, Manolo Ventures Pvt Ltd – Palai, Kottayam Jan 2025 – Present

- Built Apps and Websites for the company.
- Currently building & maintaining infrastructure and backend of 3 SaaS products.
- Also maintaining two core packages.

GenAI Developer Intern, Beckn Protocol – FIDE, Bangalore May 2025 – May 2025

- Published packages for Digital Public Infrastructure Protocol, Beckn in Typescript, Python & Go-Lang
- Built user friendly agentic server for new Indian Digital Energy Grid project

Frontend Developer Intern, Gtech-Mulearn – TechnoPark, Thrivandrum July 2023 – Dec 2023

- Maintain websites as Remote frontend intern for Mulearn, a edu-tech community in India
- 6 months experience with Reactjs (TypeScript) and Django (Python)
- Rewrote the UI components with better abstraction and reusability

Volunteering Experience

Chief Technical Officer, IEDC – Startup Bootcamp, SJ CET Palai Jun 2022 – Feb 2025

- Promoted to CTO from technical officer in 2024 for leading the tech team
- Created & maintained IEDC website at 2022
- Volunteered in organizing IEDC Summit 2022
- Actively engaged in organizing hackathons, workshops and tech talks for promoting entrepreneurship at campus

FOSS Club Lead, The Nexus Project – SJ CET Palai Sep 2023 – Dec 2024

- Restarted the FOSS community at campus
- Conducted workshops and events to promote FOSS culture

Designer & Web Developer, Tedx – SJ CET Palai Jan 2025 – Feb 2025

- Helped in organizing TEDx event at campus
- Designed poster & created TEDx website at 2025

- TensorFlow Lead**, Google Students Developer Club – SJCTET Palai Sep 2022 – Jul 2024
- Promoted to TensorFlow Lead in GDSC in 2024
 - Conducted workshops on TensorFlow, Firebase, Google Cloud Platform
 - Created & maintained GDSC website at 2022 & 2023
- Co-Technical Lead**, UiPath Academic Alliance Student – SJCTET Palai Feb 2023 – Dec 2023
- Joined as Co-Technical lead in 2023 and taught RPA tools
 - Traveled around kerala and conducted many workshops on UI Path tools
- Web Developer**, IEEE – SJCTET, Palai June 2022 – June 2023
- Developed and maintained IEEE website and organized many events
 - Volunteered in IEEE Kochi Hub event 2022

Projects

- Jem Manolo** jem.manolo.in
- Developed an Ecommerce website for customizing Jewellery with 3D preview and AR view for the company Manolo.
 - Tech Stack: TypeScript, ThreeJs, React, TailwindCSS, Cloudflare
- Sarvam AI SDK** npmjs/sarvam-ai-sdk
- Developed a package to bring Sarvam provider support for Vercel's AI-SDK, enabling developers to easily use Sarvam's models in their applications.
 - Tech Stack: TypeScript, AI-SDK, Sarvam API
- Hono Cloudflare** npmjs/hono-cf
- Developed a package for Hono framework to improve developer experience while using with Cloudflare
 - Tech Stack: TypeScript, Hono, Cloudflare Workers
- Beckn Packages** npmjs/beckn-typescript
- Developed a set of packages for Beckn protocol in TypeScript, Python & Go-Lang to improve developer experience
 - Tech Stack: TypeScript, Python, Go-Lang
- Helios AI Browser** github/helios-browser
- Developed an open source alternative of ARC browser with integrated AI tools
 - I Integrated GenAI into browser at India FOSS Hackathon
 - Tech Stack: TypeScript, QT, C++ , AI-SDK, Chromium, React
- Radar - AI Surveillance Engine** github/radar
- Developed a major project for college, a web-app and a radar system that can detect objects in real-time using YOLOv8 and OpenCV
 - The system can be used for various applications such as security, surveillance, and traffic monitoring
 - Tech Stack: TypeScript, Python, FastAPI, OpenCV, Tkinter, React, Supabase, Yolo-v8
- Asthra - Tech Fest Website** asthra.sjctetpalai.ac.in
- Developed a robotic 3D interactive website for the national level technical fest, with dashboard for event management, registration and ticketing.
 - Tech Stack: Nextjs, Supabase, TailwindCSS, ThreeJS, Framer Motion, tRPC, Redis, Cloudflare
- LuttAPI - Open source alternative to v0** luttapi.vercel.app
- Developed a SaaS for instantly generating & deploying frontend UI with API endpoints or JSON
 - Tech Stack: Nextjs, AI-SDK, Redis (Upstash), TailwindCSS, Framer Motion, tRPC, Github Actions, Anthropic Claude
- FileSphere - AI for Drive & File Management** nexus-sjctet/filesphere.ai

- At a hackathon, developed an Action Model AI file management system that can categorize, search, and manage files based on user request by itself
- Tech Stack: Nextjs, LangChain, GO, tRPC, Llama3

Initiative - Vercel AI-SDK Extension

npmjs/initiative

- Developed and published library on NPM that turns Large Languages Models into Action Models for sequential function calling tool chain
- Tech Stack: LangChain, Zod, TypeScript, AI-SDK

MindEase - LAM

nexus-sjcet/mindease

- Developed at Hackathon, a personal whatsapp bot with Action Model AI that can perform health care assistances
- Tech Stack: Python, LangChain, Prisma, FastAPI, Mistral AI

MultiMedia Commenting Vscode Extension

nexus-sjcet/voice-it

- Developed at Hackathon, a vscode extension that allows multi-media commenting (img, voice, gif etc) inside any code file
- Tech Stack: TypeScript, Vscode API

Scriptw - REPL Notebook for Javascript

rajatsandeepsen/scriptw

- Developed in-browser Jupyter Notebook alternative for Javascript
- Tech Stack: JavaScript, CodeMirror, Nextjs, Prisma

Transaction - AI enabled Banking App

rajatsandeepsen/transactions

- Developed hands free banking app that can be controlled using Voice as Engineering Mini-Project
- Tech Stack: Nextjs, LangChain, Supabase, tRPC, Llama3, DrizzleORM, Zod

Magic-UI CLI

magicui.design

- Developed a registry & CLI for open source project MagicUI (library for Design Engineers)
- Tech Stack: Nextjs, Zod, Commander, TypeScript, TailwindCSS, Framer-Motion

Additional Achievements And Awards

#BuildWithAI International Hackathon (2025): Secured Fifth prize by building Multi-Model AI for online news

Satwa National Level Hackathon (2024): Secured First Runner-Up by building Action Model AI for health care assistance

Beyond-the-Loop Hackathon (2024): Secured First place by building Drive.AI, a Google Drive file system with AI capabilities

Publications

Simple Action Model: Enabling LLM to Sequential Function Calling Tool Chain

Dec 2024

IEEE Xplore - 10893677

Technologies

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

Frameworks: Nextjs, Expo, TensorFlow, Sklearn, OpenCV, Tkinder

Libraries: Reactjs, React-Native, Expressjs, TailwindCSS, LangChain, DrizzleORM, oRPC, Better-Auth, Hono, FastAPI, Pandas etc

Softwares: Docker, Bun, Nodejs, PostgreSQL, Redis, Kubernetes, UI Path

Developer Tools: Zed, Vscode, Git, Github, Figma, Hoppschotch, Ollama, WSL