

Rajat Sandeep Sen

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Introduction

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

Freelancer, Open Source Contributor, FOSS Enthusiast. 3x Hackathon Winner. Lead of FOSS, Tech & Entrepreneurship campus communities. Recently joined a startup as CTO.

Work Experience

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

- Built infrastructure and backend of 3 SaaS products.
- Maintaining multiple open source and internal packages.

Senior Project Manager, Manolo Ventures – Palai, Kottayam Jul 2024 – Jan 2025

- Designed and built apps and websites for the startup.
- Managed freelancers and tech employees.

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 work experience with Reactjs (TypeScript) and Django (Python)

Education

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

- BTech in Artificial Intelligence & Data Science
- Minor Degree in Robotics & Automation
- CGPA: 8.04 (First Class with Distinction)
- **Coursework:** AI, Data Science, ML, DL, NLP, Computer Network, OOPs, DSA, DBMS, OS

Volunteering Experience

Open Source Contributor, Sarvam AI – Remote Dec 2025 – present

- Created two SDK and transferred to Sarvam AI github org

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

- Created & maintained IEDC website and lead the tech team for 3 years
- Volunteered in organizing IEDC Summit 2022
- Organized hackathons, workshops and tech talks for promoting entrepreneurship at campus

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

- Created a FOSS community at campus
- Conducted workshops and events to promote FOSS culture

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

- Organized TEDx event at campus
- Designed poster & created TEDx website

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

Achievements

#BuildWithAI International Hackathon (2025): Fifth prize

Satwa National Level Hackathon (2024): First Runner-Up

Beyond-the-Loop Hackathon (2024): First place

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, Better-Auth, FastAPI, Pandas etc

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

Developer Tools: Zed, Git, Github, Figma, Cloudflare, Ollama, WSL