Gagan Yarramsetty

Full-Stack Developer | Distributed Systems Enthusiast | Rustacean🦀

⊚ Andhra Pradesh 📞 +91 8328313651 @ gaganyarramsetty@gmail.com 🔗 https://ygagan.vercel.app

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Profiles

 https://github.com/YGNTECHSTARTUP   in https://www.linkedin.com/in/ygntech

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Summary

IT student passionate about systems programming, distributed computing, and low-level architectures. Skilled in Rust, networking, and real-time data processing, with a deep interest in LLVM and how distributed systems work. Focused on building high-performance, scalable solutions and contributing to open-source projects.

Skills

Programming Languages

Rust, Typescript, Python, Java, Javascript

Database

SQL, PostgreSQL, Neon DB

Tools & Technologies

Nextjs, Honojs, Drizzle ORM, Cloudflare, Upstash, Tailwind CSS, Git, Vim, Vercel

Design

Gimp, Figma, Adobe, Excalidraw

Experience

ISKCON HUBLI
Backend Developer Intern

January 2025 - Present
Remote

- Worked as a **Backend Developer Intern**, where I collaborated closely with a Senior Developer to architect and develop a **production-grade backend system** for a **global donation collection platform**—ISKCON Hubli Campaigns. The platform enables users worldwide to create and manage fundraising campaigns for temple construction.
- Leveraging **Edge Runtime and a Serverless Stack**, I ensured seamless performance and scalability, allowing the application to operate efficiently across the globe. The system was designed for high availability, low latency, and optimal resource utilization, making it a **robust and efficient solution for large-scale donation management.**

MSME-CITD
Industrial Trainee

June 2023 - Nov 2023
Vijayawada, Andhra Pradesh

Industrial Trainee | MSME-CITD Hyderabad

- During my industrial training at **MSME-CITD Hyderabad Sub Centre Vijayawada**, I got exposure to **industry standards in product manufacturing** and learned how **low-level systems** work. I explored **meta-programming, compilers**, and the basics of system operations.
- I also worked on **circuit design** using **Proteus Design Suite**, gaining hands-on experience in building and simulating circuits. This training helped me understand how things function behind the scenes in both **hardware and software**

Education

Andhra University Collage Of Engineering
Information Technology

September 2024 - Present
Bachelor Of Technology

Aanm and Vvrsr Polytechnic
COMPUTER ENGINEERING
Percentage: 92.2%

Nov 2021 - Jun 2024
Diploma

Volunteering

Codeiam
CoLead Of Web Dev Chapter

October 2024 - Present
Vishakapatnam, Andhra Pradesh

GDGOC AUCE
Technical Head of Web Dev Domain

September 2024 - Present
Vishakapatnam, Andhra Pradesh

Certifications

Certificate of Appreciation
GDG Vizag

December 2024

Certificate of Industrial Training
Central Institute Of Tool And Design

Nov 2023

Projects	**ISKCON HUBLI CAMPAIGNS**	January 2025 - Present

🔗 https://campaigns.iskconhubli.org/

A highly scalable and performant **Edge Production-Grade Backend System** designed for creating **donation campaigns** for building a temple for **ISKCON Hubli**. The system leverages modern **edge computing technologies** to ensure **low-latency, high-availability,** and efficient performance. It is deployed on **Cloudflare Workers**, using **Hono.js** for APIs, **Node.js** for backend logic, **Neon DB** as a serverless database, and **Drizzle ORM** for efficient querying. On average, the system handles **15,000 requests per day**, ensuring seamless **donation processing**.

Neon DB, Honojs, Drizzle Orm, Cloudflare Worker

Minimalist Personal Portfolio   December 2024

🔗 https://ygagan.vercel.app/

A sleek and **interactive personal portfolio** designed with a **minimalist aesthetic**. The project showcases creative design thinking, smooth animations, and a highly responsive UI. Built using **Tailwind CSS** and **ShadCN UI**, the portfolio delivers a modern and elegant user experience. Animations are powered by **Framer Motion**, adding fluid transitions and dynamic interactions. The initial design concepts were sketched using **Excalidraw**,

Nextjs, Tailwind Css, Shadcn UI, Motion, Excalidraw

YGN OS – A Minimal Rust Kernel   November 2024

🔗 https://github.com/YGNTECHSTARTUP/os1

YGN OS is my **first minimal kernel**, built entirely in **Rust**! 🦀 This standalone kernel runs on **bare metal**, bypassing traditional operating systems and directly interacting with the **VGA text buffer** to print **"Welcome to YGN OS"**. The project marks a significant milestone in my **systems programming journey**, providing hands-on experience with **low-level computing, bootloaders, and kernel development**.

Kernel, Low Level Programming, Rust

Research Intrest

Distributed Systems

I love learning how **distributed systems and databases work**. Interested in **consensus algorithms like Raft, how distributed ledgers store data, and how databases manage information efficiently**. Exploring **storage engines, replication, and real-time data streaming** to understand how large-scale systems stay fast and reliable.

Concurrency

I enjoy learning how **concurrent and parallel systems work**. Interested in **multithreading, async programming, and how computers handle multiple tasks efficiently**. Exploring **Rust's async/await and threading models** to build better, faster systems while understanding the **underlying fundamentals** of how they work.

Languages	English	Telugu	Hindi
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Hobbies	Running	Doodling	Listening Songs	Day Dreaming
	Blogging	Gaming	Researching	Eco Exploration