

# KUNAL SINGH

Full Stack Developer • Backend Engineer

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[GitHub](#) | [Portfolio](#) | [Linkedin](#)

## EDUCATION

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### Technocrats Group of Institution

Computer Science & Engineering B.Tech.

CGPA: 8.01 (Till 4th sem)

November 2021 - August 2025

## SKILLS

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Programming Languages: C++, Go, JavaScript, TypeScript, Rust  
Libraries/Frameworks: HTML, CSS, React.js, Next.js, Express, Node.js, Tailwind CSS, Prisma  
Tools / Platforms: Git, GitHub, Linux, Bash, Docker, Docker Swarm, Containers, Nginx, Fiber(GoLang), REST Api, WebSockets, GraphQL, RabbitMQ, RPC and gRPC, Testing, Azure VM  
Databases: SQL, PostgreSQL, MongoDB, Redis

## PROJECTS / OPEN-SOURCE

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### Melt-CD | [Link](#) Go, React.js, TypeScript (JavaScript), HTML / CSS, JSON, GitHub Actions (CI), Docker

- Continuous Development (**CD**) platform for docker swarm.
- Build a reliable CD application with golang to work with **docker swarm**, an alternative to **Kubernetes**.
- It is based on *GitDevOps* technique, just like **Argo-CD** for *Kubernetes*.
- The **API** Server is build with **golang**, the **CLI** is also build with **golang** and the *admin UI* is build with **React.js**.

### Secops (Secure Operations) | [Link](#)

Rust, Tauri, Typescript, Ubuntu, React.js

- A Desktop application for Ubuntu Operating System to manage OS Security.
- Build with Rust, Tauri (a rust framework) and Typescript.
- Using secure technique to authenticate like **pkexec**, and its completely offline to make it more secure.
- Manages hardware security like *Blocking of camera*, *Blocking of USB Port* etc. And other system security technique such as **Firewalls**, **SSH** can be enhanced.

### Image Server | [Link](#)

Go, SQLite, Docker, HTML/CSS, JavaScript, Azure

- Designed and developed a self hosted Image Server, which can be used in online forums, like blogs, articles. It can be used as a microservice to add image serving capability, alternative to AWS S3.
- An image server is web server software which specializes in delivering (and often modifying) images
- It can be self hosted using **Docker**
- Deployed on **Azure VM** via **Nginx**

### Portfolio Website | [Link](#)

Next.js, React, TypeScript, Shadcn UI, Tailwind CSS, Meilisearch

- My portfolio website serves as a comprehensive showcase of my skills and achievements.
- Through a collection of projects, I demonstrate proficiency in full stack development.

### LiveJQ | [Link](#)

Rust, JSON

- A CLI tool for JSON Data Parsing on Realtime data stream
- An alternative jq implementation in rust for continuous parsing without crashing on invalid JSON
- Helpful for data streams, which may have other formats in between like text along with JSON, and you want to parse JSON for better readability.

## HONORS & AWARDS

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Lead the Team which won 2nd price in Hackathon organized by NRI Group of Institutions, Bhopal  
2 Year Consecutive Winner of CodeCrunch (Annual Programming contest at my College)