

KUNAL SINGH

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EDUCATION

Technocrats Group of Institution

Computer Science & Engineering B.Tech.
CGPA: 8.10

November 2021 - August 2025

EXPERIENCE

Blupp Co. | Software Developer Intern

June - July 2024

- Worked on Serverless application involving Cloudflare Workers and Other technologies like JavaScript, Go, NodeJS, TypeScript. PlanetScale.
- Worked on Go Backend application, designed for High Throughput.

SKILLS

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

PROJECTS / OPEN-SOURCE

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**

Netgres | [Link](#)

GoLang, Tailscale, Wireguard VPN

- Netgres is a work in progress application for creating personal network password manager secret directory on top of Wireguard VPN.
- It creates a private network using an individual's own devices, aiming to provide the accessibility of cloud-based password managers while maintaining personal control over data storage.

HONORS & AWARDS

Lead the Team which won 2nd price in Hackathon organized by NRI Group of Institutions, Bhopal
2 Year 1st rank and this year 2nd rank Winner of CodeCrunch (Annual Programming contest at TIT Group.)