GURPREET SINGH

Indian Institute of Information Technology and Management, Gwalior

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EXPERIENCE

Remaster 🔗
Software Developer Intern

📅 April 2022 – July 2023

- Built Remaster's official **website** 🔗 using **React.js** and **Tailwindcss** with **Framer Motion** animations.
- Developed a **Golang** based passwordless authentication system using **webauthn**, enabling secure login via device passkey or inbuilt sensors reducing **90%** phishing attacks.
- Created a universal **Golang logging** library for microservice monitoring integrating with **EFK** stack for **Kubernetes** cluster logs.
- Built a documentation hub for Remaster API **Docusaurus**.
- Developed a **Strapi** powered blogging platform for Remaster.
- Contributed over **2000+ lines** of code and developed **20+ APIs** to the core Remaster server.

Codepend 🔗
Full Stack Developer Intern

📅 January 2022 – March 2022

- Designed official website for Codepend using **NextJS** and **Tailwindcss**.
- Added Cron jobs using **Firebase** functions for automation tasks.
- Orchestrated WebApp containerization using **Docker** and cloud deployment using **GCP**.
- Set up a mailing server using **SendgridAPI** for automated newsletters.

PROJECTS / OPEN-SOURCE

Meshery/Layer5 ⚙
CNCF Projects - Open Source

- UI Improvements on **Layer5** and **Meshery** official websites.
- CLI improvements of **mesheryctl** using **Golang logrus** library.
- Implemented auto-suggestion feature in **mesheryctl** for incorrect commands using **Levenshtein distance** algorithm.

PaperFi ⚙
A Decentralized Crowdfunding platform for Research Papers - Blockchain

- A platform for researchers to publish and raise funds for their research.
- Use of **NextJS** and **Tailwindcss** ensured user-centric experience.
- Build **Solidity** Smart Contracts using **Hardhat** and **IPFS** integration.
- Smart contracts deployed on **Goerli** testnet and website deployed on Fleek.

Kube-Controller ⚙
Kubernetes Resource Monitor Controller - Golang

- Developed a **Kubernetes** resource monitoring custom controller using **Golang** containerized with **Docker**.
- It tracks CPU/Memory usage for Kubernetes **Deployments**.
- Utilized **Go routines** for concurrent monitoring and giving aggregated metrics per namespace on an exposed public API endpoint for client usecase.

Expresso ⚙
A Blogging Website - Full Stack

- Crafted a personal blogging application designed with appealing user interface using **NextJS**, **TailwindCSS** and **Sass**.
- Integrated **GraphCMS** for easier content management and **GraphQL** for faster query along with seamless deployment on the **Vercel** platform.

EDUCATION

B.Tech in Computer Science and Engineering, **9.16 CGPA**
IIIT Gwalior, India

📅 June 2020 – June 2024

CBSE-XII 96.4%, JEE 2020, 99%tile
BCM Arya Model Sr. Sec. School, Ludhiana, India

📅 April 2019 – April 2020

SKILLS

- **Languages**
  Golang, TypeScript, Solidity, Python, C/C++

- **Web Development**
  ReactJS, NextJS, Firebase, Tailwindcss, MaterialUI, NodeJS, ExpressJS, GraphQL

- **Blockchain**
  Truffle, Hardhat, Web3.js, Ethers.js, The Graph, IPFS, Ganache

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- **Database Systems**
  Couchbase, MySQL, PostgreSQL, MongoDB, Redis

- **DevOps**
  Docker, Jenkins, Kubernetes, Github Actions

- **Tools**
  Git & Github, Postman, Figma, Canva

ACHIEVEMENTS

- Contributed to **CNCF** projects with **10+ PRs**.
- Held an official membership within the esteemed **Laye.r5** organization, as open source contributor.
- Ranked among the **Top 10 finalists in Smart India Hackathon Internals 2022**
- Led the **Best regional team in a National Hackathon - Hackstack 2022**.
- Achieved a global rank of **68th in Codechef Snackdown 2021**.
- Achieved **State Topper (1st Rank)** in Punjab School Education Board's Matriculation Exam.

POSITION OF RESPONSIBILITY

Placement Representative, IIIT Gwalior

Core Team Head at E-Cell IIIT Gwalior