# Suraj B M

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#### About

I am a proficient fullstack web developer with a strong background in cryptography, leveraging modern web development stacks such as T<sub>3</sub>Stack and MERNStack. My experience encompasses building responsive UIs and developing secure applications utilizing role-based authorizations.

## Projects \_

rapport Next.js, MySQL

- · Created an end-to-end encrypted messaging app securing messages using multiple encryption layers, including ECDH, AES, and PBKDF2.
- Github link: silicoflare/rapport 2

nexgen-portal Next.js, MongoDB

- · Created an innovative portal for participant check-in that streamlined the management of food coupons and improved the logging process for snacks during NexGen 2.0, a high-energy 24-hour hackathon.
- Github link: silicoflare/nexgen-portal 2

docker-hadoop bash. Dockerfile

- Developed a minified Docker image based on Ubuntu, preloaded with essential Big Data tools including Hadoop, Pig, and Spark.
- Github link: silicoflare/docker-hadoop [2]

vroomify Next.js, FastAPI

- Designed an innovative enterprise resource planning website for a fictional automobile company, enhancing order tracking, inventory management, and material procurement processes.
- Github link: silicoflare/vroomify 2

confidant Bun, TypeScript

- · Developed a CLI tool that enables users to easily establish secure vaults, employing advanced cryptographic protocols such as ECDH for key exchange, AES for data encryption, and HMAC for ensuring message integrity.
- Github link: silicoflare/confidant 🗷

# Experience \_\_

Summer Intern, TwoSpoon.ai – Bengaluru, India

July 2024

• Demonstrated expertise in fullstack development by constructing a website for a meme-based marketing agency, focusing on a highly responsive UI and role-based authorization. Additional responsibilities included setting up database CRUD operations and developing complex table relationships.

Summer Intern, TwoSpoon.ai – Bengaluru, India

June 2025 - present

· Developing a web-based infrastructure management platform, complete with server setup, to streamline connectivity between market applications and financial exchanges for enterprise clients.

#### Skills \_\_\_\_

Programming Languages: Python, C/C++, Java

Web Development: TypeScript, Bun, Next, T3Stack, MERNStack, PostgreSQL, TailwindCSS

DevOps: Docker/Podman, Git, Bash

### Add-ons: Cryptography, Markdown

### Education \_\_\_\_\_

**PES University**, *BTech in CSE (AI&ML)* – Bengaluru, India 7.11 GPA (as per 5th semester)

2022 - present

Narayana PU College, PUC - Bengaluru, India

2022

Percentage: 95%

St. Francis de Sales Public School, CISCE - Bengaluru, India

2020

Percentage: 97%

# Publications \_\_

## Dynamic Crowd Management through Potential Field-Based Simulations

Oct 2024

Samprith Jagtap D, **Suraj B M**, T Jaiwanth, Anushka Ghei, Srinivas K S 10.1109/ICSGSC62639.2024.10813704 ☑ (IEEE)

#### Hobbies \_

- Reading: Variety of genres like fiction, history, classical literature, contemporary writings, geopolitics, civics
- · Watching: Police procedural dramas, crime, historical documentaries, gaming
- · Gaming: Minecraft, Terraria, Grand Theft Auto series