

Shreekrishna Hegde

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About

I am a passionate software developer with a strong foundation in full-stack development and a focus on building scalable, real-world applications. I thrive in collaborative environments and continuously seek opportunities to learn new technologies and apply to real-world challenges.

Education

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|-------------|--|---------------------|
| BE | JSS Science and Technology University , Information Science and Engineering – Mysore, Karnataka, India
• CGPA: 8.87/10 | Sept 2023 – present |
| PU | Shanthiniketan PU college Dharwad , PCMCs – Dharwad, Karnataka, India
• percentage: 90% | June 2023 |
| 10th | Shree Sharadamba English Medium Highschool, Bhairumbe , – Sirsi, Karnataka, India
• percentage: 98.72% | June 2021 |

Projects

EventZone

An application for event management designed to simplify user registration and organising events.

- Built a **Flutter** frontend and **Spring Boot** backend with **MongoDB** for scalable NoSQL data management and seamless host-participant interactions.
- Implemented **JWT & OAuth2 (Google Sign-In)** authentication, automated email + Google Calendar reminders, and integrated **Cloudinary** for image handling.
- Optimized performance and reliability using **Redis caching**, **Spring Security**, **CORS**, **Lombok**, **Hibernate Validator**, and documented APIs via **Swagger**, tested thoroughly with **Postman**.

TransCrypt

An end-to-end encrypted, cross-platform file-sharing app for secure data transfer.

- Developed a **cross-platform, peer-to-peer file transfer** application using **Flutter**, enabling secure and high-speed local network transfers without intermediary servers.
- Implemented **end-to-end encryption with X25519 key exchange and XChaCha20-Poly1305** authenticated encryption, ensuring data confidentiality and integrity.
- Integrated Supabase authentication and real-time presence detection, allowing users to sign in securely and discover other active devices on the network.

DineEase

An application for food ordering

- Built the frontend in **Flutter** with a responsive, user-friendly UI.
- Developed a multi-role authentication system using **Supabase** for hotel owners and customers.
- Implemented **Spring Boot REST APIs** integrated with **MongoDB Atlas**, tested via **Postman**.

Service Booking System

A service marketplace platform where companies can post service ads and users can purchase services.

- Built backend using Spring Boot with **SQL** database for reliable data management and transactions
- Implemented CRUD operations and **multi-table joins** using JPA.

RoadWatch (Currently Implementing)

An AI-powered Accident Detection System that monitors live video feeds from road CCTV or vehicle cameras to detect accidents in real-time.

- Uses computer vision to identify road accidents from live camera feeds.
- Automated emergency notifications to nearby hospitals, sending location data and video footage to accelerate medical response.

Skills

Programming / Languages: C, C++, OOP & Multithreading basics in Java , Basics of HTML,CSS and JS; Good understanding of Frontend development with **Flutter**, **React** and Backend development with **Spring Boot**

Tools: Proficient in **GitHub**, **Supabase**, **Postman**(for API testing) and deployment services like **railway**

Database: Working knowledge of **SQL queries** and experience with **MongoDB Atlas**

Languages: English, Kannada

Extracurricular Activities

- Participated in National Level Exhibition and Project Competition (NLEPC) - INSPIRE MANAK.

Interest

- Astronomy and physics - I often spend my free time engaged in star-gazing.
- Animating with Blender
- Photography and astrophotography