

# Roshan Kumar

Email: roshankaveri93@gmail.com  
Mobile: 7795936237  
LinkedIn: linkedin.com/in/roshan-k-kumar  
Portfolio: portfolio.hmmbo.com  
GeeksForGeeks: geeksforgeeks.org/user/roshan\_kaveri  
GitHub: github.com/roshan-kaveri

## EDUCATION

- Manipal Institute of Technology [MIT]** Udupi, India  
*Bachelor of Technology - Information Technology; CGPA: 8.09* 2022 -2026(Expected)  
*Courses: Operating Systems, Data Structures, Algorithms, Object Oriented Programming, Computer Networks, Software Engineering, Information Security, Database Management*
- Bhandarkars' Pre-University College** Kundapura, India  
*Class XII, 90%* 2020-2022
- Sri Venkataramana English Medium High School** Kundapura,India  
*Class X, 97%* 2019

## SKILLS SUMMARY

- Programming Languages:** C, C++, Java, Python, HTML5, CSS3, JavaScript
- Frameworks & Libraries:** Bootstrap, Tailwind CSS, Flask, React, Express, Node.js
- Tools & Platforms:** Git, GitHub, Postman
- Databases:** MySQL, PostgreSQL, MongoDB
- Operating Systems:** Windows, Linux

## PROJECTS

- Reading Vault (MongoDB, Express, React, Node.js):** [Link](#)
  - Developed a scalable **MERN stack** web application for reading books, featuring **Google OAuth** authentication and a fully responsive user interface.
  - Integrated **Razorpay API** for secure and efficient digital payment processing.
  - Implemented real-time **search functionality** to enable dynamic book discovery and filtering.
- Prediction of Pediatric Respiratory Disease Severity (Flask, XAI):**
  - Developed a **Flask-based** ML application to predict respiratory disease severity in pediatric patients using data preprocessing.
  - Integrated **Explainable AI (XAI)** to provide transparent and interpretable predictions for healthcare professionals.
  - Designed a responsive and user-friendly interface to improve accessibility for healthcare providers.
- Secure TextDrive (Flask, Python, HTML, CSS, PostgreSQL):** [Link](#)
  - Engineered a secure file storage platform implementing **RSA encryption, digital signatures, and hashing**.
  - Managed user data efficiently with **PostgreSQL** and role-based access control.
  - Built a modern, minimal UI for file sharing using **Flask** and native web technologies.
- Manipal Resort (PostgreSQL, Express, React, Node.js):**
  - Architected a **full-stack booking system** for resorts with real-time cab ordering and feedback modules.
  - Developed a dynamic frontend using **React** with responsive design for mobile-first usage.
  - Constructed RESTful APIs using **Node.js/Express**, integrated with **PostgreSQL** for robust data handling.

## EXPERIENCE AND EXTRACURRICULAR

- Full Stack Intern - Accolade Tech Solutions Private Limited:** December 2024 – January 2025
  - Developed a web-based library management system using **MERN stack**.
  - Integrated **multiple authentication methods** and a secure **payment gateway** for seamless transactions.
  - Optimized data retrieval and resource management through **MongoDB** integration.
- Freelance Plugin Developer - Spigot Minecraft Plugins:** December 2022 – Present
  - Developed and published **custom Spigot plugins** using **Java**, with over **20,000 downloads** and **600 sales**.
  - Enhanced plugin functionality by integrating advanced features and APIs.
  - Managed the end-to-end **plugin lifecycle**, including design, development, and distribution through Minecraft marketplaces.

## ACHIEVEMENTS AND CERTIFICATIONS

**Indian Patent Application:** 3rd author in Indian patent application no. 202441062830, "System and Method for Predicting Respiratory Illness of Users", filed on Aug 20, 2024.

**Eureka Hackathon:** Secured 4th place in the Eureka Hackathon hosted by KMC for developing a machine learning model to predict ICU admissions.