Vikas R

Computer Science and Engineering

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Professional Summary

Full-stack developer with 2 years of learning in designing and building scalable web applications, RESTful APIs, and intuitive UI/UX interfaces. Proficient in both frontend and backend technologies with hands-on experience in modern JavaScript frameworks and server-side development. Well-versed in Data Structures, Algorithms and core Computer Science fundamentals. Known for writing clean, maintainable code and delivering reliable solutions in agile environments.

Skills

Frontend: React.js, Embedded JavaScript, HTML/CSS, Bootstrap, Material UI, JavaScript, React Native
Backend: Node.js, Express.js, PostgreSQL, MongoDB
Tools: Figma, GitHub, VS Code, Postman, Render, Vercel
Other Skills: RESTful APIs, Version Control, Machine Learning Models, Agile Development

Projects

- **Institutional Chat Bot** | (Ongoing) React JS, Node.js, Express.js, MongoDB, Python3, Machine Learning Model
  Final year project focused on building a chatbot platform for teachers, students, and parents. Enabled users to access student details, analyze academic progress, and receive college updates. Integrated WhatsApp API to deliver real-time notifications and test alerts to parents.

- **Social Media Platform** | React.js, Node.js, Express.js, REST API, MongoDB
  Created a full-stack social media application with real-time messaging, friend connections, and photo uploads. Implemented secure RESTful APIs and dynamic frontend interactions for a smooth user experience.

- **Emission Detection on Camera** | CNN, Python3
  Built a computer vision system to detect vehicle emissions in real time using a camera feed. Used a CNN model to analyze smoke density and estimate carbon emission levels based on visual characteristics.

- **<u>E-Commerce Website</u>** | Embedded JavaScript, Node.js, Express.js, REST API, PostgreSQL
  Designed and developed a user-friendly e-commerce platform focused on intuitive UI/UX. Built RESTful APIs for product, category and order management with secure backend integration.

- **My Bookstore Rating** | Embedded JavaScript, PostgreSQL, REST API, CSS, JavaScript
  Developed a web page where users can rate books and upload images, with image data stored and retrieved from PostgreSQL in binary format.

Courses

<u>Full Stack Web Development Certificate</u> | Udemy

<u>React – The Complete Guide (incl. Next.js, Redux)</u> | Udemy (Ongoing)

<u>Strivers A2Z DSA</u> | YouTube (Ongoing)

Education

JSSATE-Bengaluru   *Sep 2022 – Jul 2026*
Pursuing BE in Computer Science with a current CGPA of **8.12**
Bengaluru, Karnataka, India