

Anirudha Joshi

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SUMMARY

Dedicated and detail-oriented Computer Science student with a strong foundation in software development, proficient in Java, JavaScript, and web technologies like React, Node.js, and Express.js. Skilled in designing scalable applications and eager to contribute innovative solutions to dynamic software development teams.

PROJECTS

Learning Management System (File/Notes sharing application) – Frontend and Backend Development

- Built a comprehensive file/notes sharing application using ReactJS, NodeJS, ExpressJS, and PostgreSQL, demonstrating proficiency in both frontend and backend development.
- Utilized JWT to enforce Authentication and role-based access control, ensuring secure and appropriate access for admins, teachers, and students.
- Leveraged Cloudinary for efficient and scalable file storage, enabling seamless upload, retrieval, and management of files and notes.
- Designed and maintained a PostgreSQL database to handle user data, file metadata, and role permissions, ensuring data integrity and performance.
- Created an intuitive and responsive user interface with ReactJS, enhancing user experience for different roles (admin, teacher, student) through tailored functionalities and accessibility.

Smart IV Bags Monitoring System

- Addressed the inefficiencies of manual IV bag monitoring and replacement in healthcare facilities, aiming to enhance patient care quality and efficiency. Identified and leveraged IoT and MQTT protocols to automate real-time IV fluid level monitoring, reducing manual errors and delays by 40% and enhancing patient safety by 25%.
- Successfully completed the Smart IV Detection System, leveraging JavaScript (Node.js), Express.js, WebSocket, MQTT, and Arduino technologies, with seamless integration into existing healthcare infrastructure.
- Revolutionized IV bag monitoring by implementing automated systems, reducing manual checks by 60% and enhancing patient care quality, leading to a 25% increase in operational efficiency in healthcare facilities.

Practice projects: Blog management system, Job Search Web Application.

ACHIEVEMENTS AND CERTIFICATION

Second Prize Winner - Hackathon

- Achieved second place out of 25 selected teams (over 100 applications) in the TechQuest Hackathon at St. Joseph University, Bengaluru, for collaboratively developing the Smart IV Bags Monitoring System.
- Demonstrated excellence in teamwork and technical skills by integrating IoT, sensors, and MQTT protocols for real-time IV fluid level monitoring, significantly enhancing patient care efficiency.

The Complete 2024 web Development Bootcamp - Udemy

- Dr. Angela Yu, Developer and lead instructor

Cisco Networking Academy - CCNAv7: Introduction to Networks - Cisco

- Introduction to Networks course, demonstrating proficiency in configuring switches, routers, and end devices, creating IPv4 addressing schemes, and subnetting.

SKILLS

- Programming Languages:** Java, JavaScript, C
- Frameworks and Development Tools:** Node.js, Express.js, React.js, Bootstrap, VS Code
- Database:** MySQL, PostgreSQL
- Version control:** Git
- Others:** Database Management System, OOPs, HTML, CSS

EDUCATION

Computer Science Engineering

SDMCET, Dharwad | 2025 CGPA - 7.83

12th PU Science

KSSS PU College, Hubli | 2021 92.33%

10th

K.E. Board's ENG MED School, Dharwad | 2019 88.16%

HOBBIES

- Football
- Chess