

SAHANA R

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SUMMARY

Enthusiastic and dedicated aspiring software developer with a passion for building scalable, user-focused applications. Strong foundation in computer science principles including object-oriented programming, data structures, and algorithms. Eager to contribute to real-world projects in a fast-paced, collaborative environment, where innovation, system-level thinking, and customer obsession are at the core. Committed to continuous learning and delivering high-quality, maintainable code that solves real-world challenges at scale.

PROJECTS

Multilingual Language Tools Suite - Academic Project

March - June 2025

Technologies Used : Python, Streamlit, Googletrans, SpeechRecognition, gTTS, PyDub.

- Built a modular Streamlit web app for real-time speech-to-text, text translation, and text-to-speech in 20+ global and regional languages.
- Integrated Google Translate API for automatic language detection and multilingual translation.
- Enabled audio recording, file upload, and real-time speech processing using SpeechRecognition and PyDub.
- Customized UI with responsive layouts and styled components for improved user interaction. Ensured modularity and scalability by organizing code into reusable components.

Portfolio - Personal Project

October 2024

Technologies Used : HTML, CSS, JavaScript.

- Developed an interactive personal portfolio website.Used HTML, CSS and JavaScript for front-end development.
- Implemented responsive design to ensure optimal viewing on different devices. Integrated dynamic project galleries and an interactive skills section.
- Hosted the portfolio on Netlify with open-source accessibility, encouraging collaboration and inviting suggestions for continuous improvement.

LifeLine Blood Bank - Academic Project

May 2023

Technologies Used : HTML, CSS, JavaScript, PHP, MySQL.

- Developed a comprehensive Lifeline Blood Bank Management System to streamline and enhance the management of blood donations and transfusions.
 - The project involved creating a robust and user friendly web application that handles: Donor Registration and Management: Secure and efficient registration, tracking, and communication with donors.
 - Blood Inventory Management: Real-time monitoring of blood stock levels, types, and expiry dates.
 - Request Handling: Processing and fulfilling blood requests from hospitals and patients.
 - Reports and Analytics: Generating insightful reports and analytics to assist in decision-making and ensure compliance with regulatory standards.
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EDUCATION

Master of Computer Applications

2023 - Present

Bangalore University, Bengaluru - CGPA : 8

Courses: Java, Operating Systems, A.I., Computer Organization and Architecture, Data Structures, Networking.

Bachelor of Science (Computer Science)

2020 - 2023

Government First Grade College, Bengaluru - CGPA : 8.4

Courses: Java, Operating Systems, Data Structures, Networking: DNS, OSI Model, Linux.

ADDITIONAL INFORMATION

- **Technical Skills:** HTML, CSS, JavaScript, AWS, Git/GitHub, Visual Studio Code.
- **AWS re-start Practitioner.**
- **Certifications:** Pinnacle Labs - Internship, Power BI for Beginners - Machine learning with Python, SimpliLearn (Skill- UP).
- **Extra Curriculum:** Part of Organizing TECHIZEN2K24 Event @ Bangalore University
- Active Tech Enthusiast.
- MySQL Bootcamp - LetsUpgarde.
- Python Bootcamp - LetsUpgarde.