

VANSH RAJ SOAM

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SUMMARY

- Computer Science undergraduate with a strong foundation in full-stack development, data structures, and system design. Experienced in building real-time applications, AI-powered tools.
- Focused on writing clean code, understanding systems, collaborating in teams, and building practical solutions through hands-on projects and competitive programming.

EDUCATION

- **Graphic Era Hill University** Dehradun
B.Tech in Computer Science, GPA: 7.8/10 Aug 2022 – Aug 2026
- **Mahaveer International School** Meerut
Class 12 (CBSE), Score: 84.16% Aug 2021 – Aug 2022

TECHNICAL SKILLS

- **Languages:** C, C++, Python, Java, JavaScript, SQL
- **Web** React.js, Node.js, MongoDB
- **Tools:** Git, Docker, Kubernetes, TensorFlow, Pandas, NumPy

PROJECTS

- **MediBridge – Medical Device Monitoring System** — *React.js, MySQL, WebSocket* [GitHub](#)
 - Built a responsive web app to monitor real-time health of 50+ medical devices using WebSocket-based live updates.
 - Designed user-specific dashboards with role-based access (doctors, admins) to view device alerts and status.
 - Implemented early-warning system by analyzing incoming data streams and generating predictive alerts.
- **Crop Recommendation System** — *Flask, Python, Machine Learning* [GitHub](#)
 - Developed a web app using a Random Forest model to recommend suitable crops based on soil and climate inputs.
 - Implemented responsive UI with real-time input validation and interactive sliders using Bootstrap and JavaScript.
 - Displayed predictions with confidence score, optimal conditions, and crop-specific care information in modal view.
- **Compile Chandra – AI-Powered Online IDE** — *Flask, JavaScript, Python* [GitHub](#)
 - Created a browser-based code editor supporting multiple languages with real-time compilation and output preview.
 - Integrated AI assistant (GenAI) to help users debug code, suggest improvements, and understand error messages.
 - Included syntax highlighting, secure sandbox execution, and support for 100+ daily code submissions.

CERTIFICATIONS

- **AWS Machine Learning Foundations** – AWS Skill Builder
- **DevOps Essentials with AWS** – AWS Skill Builder
- **Generative AI with Amazon Q** – AWS Skill Builder
- **Advanced Testing with AWS DevOps Tools** – AWS Skill Builder

ACHIEVEMENTS

- **LeetCode Global Top 1%:** Solved 500+ problems and ranked among top 2,000 in contest.
- **Hackathon Finalist:** Secured 2nd place in a 36-hour hackathon by building a Map based Application.
- **Project Spotlight:** Real-Time Chat App featured in college newsletter for demonstrating scalable backend design.
- **100-Day Coding Streak:** Completed 100+ continuous days of problem-solving on LeetCode.