

HARSHITHA S

Computer Science & Design Student | Backend & Full-Stack Development | UI/UX Designer

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PROFESSIONAL SUMMARY

Final year Computer Science and Design student and NASA Space Apps Global Nominee with a published research paper (IJSREM, 2025) and Smart India Hackathon 2025 institute-level semifinal placement. Strong foundation in Data Structures and Algorithms, OOP, DBMS, and Operating Systems, with hands-on backend development experience using Node.js and MySQL. Builds scalable, REST-based web applications with optimized SQL queries and applies Git-based collaborative workflows.

TECHNICAL SKILLS

- **Programming Languages:** C, C++, Java, Python
- **Web Development:** HTML, CSS, JavaScript, React (Frontend); Node.js (Backend)
- **Databases:** MySQL
- **Core CS Subjects:** Data Structures & Algorithms, DBMS, Operating Systems, Computer Networks
- **Tools & Platforms:** Git, Linux, VS Code, REST APIs
- **IDEs:** PyCharm, IntelliJ IDEA, Eclipse
- **Design:** UI/UX Design, Figma, Adobe, Canva

INTERNSHIP EXPERIENCE

Web Development Intern — SkillCraft

- Developed responsive, cross-browser web pages using HTML, CSS, and JavaScript, improving usability across devices.
- Built a fully functional stopwatch web application leveraging JavaScript DOM manipulation for real-time UI updates.

PROJECTS

Agro Plast-Guard — AI-Based Microplastic Detection github.com/HarshithaBsrinivas/agro-plastic

- Designed an AI-driven system to detect microplastic contamination in agricultural environments using machine learning.
- Co-authored research documentation; findings published in IJSREM Special Edition, Volume 09, NCFT 2025.

Heart Disease Risk Prediction — ML & Data Dashboards github.com/HarshithaBsrinivas/heartdisease_prediction, [cardio_AI](#)

- Built two Streamlit-based ML applications using Random Forest classifiers to predict cardiovascular risk from clinical parameters.
- Engineered features from up to 13 clinical parameters (ECG, chest pain type, cholesterol, ST depression) and validated models with ROC curve analysis.
- Delivered results via interactive dashboards with batch CSV predictions, ROC visualizations, and automated PDF risk reports.

File Organizer — Python Automation Tool github.com/HarshithaBsrinivas/file-organisation

- Developed a Python script that automatically sorts files into categorized folders (Images, Documents, etc.) based on file type.
- Automated manual file-sorting tasks using OS-level file operations, improving folder organization efficiency.

Hampi Chronicles — Digital Heritage Web Experience github.com/HarshithaBsrinivas/Hampi-chronicles

- Built an immersive, multi-page Progressive Web App showcasing the Vijayanagara Empire ruins at Hampi, featuring 25+ heritage monuments with interactive storytelling.
- Developed an in-browser AR simulator to visualize historical monument reconstructions, plus offline support and a trip-planner for building custom heritage itineraries.

EDUCATION

BE, Computer Science and Design — BGS College of Engineering and Technology CGPA: 8.67 (till 6th semester) 2023 – 2027

PUC — RNS Composite PU College

2023 | 76%

SSLC — New Indian Public School

2021 | 87%

CERTIFICATIONS

- AWS Cloud Practitioner & AI Fundamentals — Udemy
- IBM Data Analysis with Python
- Infosys Springboard — Cyber Security Foundation
- CCNA Certification — Cisco

ACHIEVEMENTS

- NASA Space Apps Challenge — Global Nominee
- AWS AI/ML Scholar — AWS x Udacity (2026)
- Smart India Hackathon (SIH) 2025 — Institute-Level Semifinalist
- Published research paper in IJSREM Special Edition, Volume 09, NCFT 2025

CORE COMPETENCIES

Problem Solving & Analytical Thinking • Version Control (Git) • Team Collaboration • Adaptability • Attention to Detail