

NURCHU SHIRISHA

STEM & Robotics Educator | Software Engineer | Workshop Facilitator

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PROFESSIONAL SUMMARY

STEM and robotics educator with software engineering experience across SQL development, low-code application workflows, UI testing, technical documentation, and user support. Experienced in delivering hands-on robotics, Arduino, sensors, electronics, automation, and coding programs for school students, facilitating workshops, mentoring projects, and creating clear technical and educational content. Promoted from STEM Engineer to Senior STEM Mentor within six months for leadership, mentoring, problem-solving, and reliable program delivery.

CORE SKILLS

STEM & Robotics: Arduino, sensors, electronics, automation, circuit building, robotics, coding
Training: Workshop facilitation, lesson planning, student mentoring, project guidance, competitions
Software: SQL, SSMS, Application Builder, UI testing, HTML, Angular, BC Next, low-code/no-code workflows
Documentation: Technical writing, workshop materials, project reports, process documentation, MS Office

PROFESSIONAL EXPERIENCE

Senior STEM Mentor | STEMX India Jan 2025 - Jul 2026
Hyderabad

- Promoted from STEM Engineer to Senior STEM Mentor within six months for leadership, mentoring, problem-solving, and consistent program delivery.
- Delivered hands-on STEM training for Grades 4-9 in robotics, Arduino, sensors, automation, electronics, and coding.
- Designed and adapted lesson plans in real time to address technical issues, different learning levels, and classroom needs.
- Mentored student projects through design, building, testing, troubleshooting, documentation, demonstrations, and competitions.
- Supported trainer interviews and candidate evaluations, assessing technical knowledge, communication, and teaching readiness.

Associate Software Engineer | CGS India Mar 2024 - Dec 2024
Hyderabad

Project: BC Next - low-code/no-code business application platform

- Developed and optimized SQL queries and database procedures for efficient data retrieval and manipulation.
- Integrated backend SQL workflows with user-facing interactions in Application Builder and supported intuitive interface development.
- Performed UI and functional testing, supported issue resolution, and contributed to platform reliability and user experience.
- Created technical documentation for UI components, workflows, and SQL procedures, and provided user training and support.

Software Engineer Intern | CGS India Nov 2023 - Mar 2024
Hyderabad

- Supported product development activities across the software development lifecycle under the guidance of experienced engineers.
- Completed assigned development and testing tasks while building practical knowledge of CGS products, tools, and team workflows.

FREELANCE & PROJECT-BASED EXPERIENCE

STEM & Robotics Trainer / Workshop Facilitator | Project-Based

- Planned and delivered interactive workshops in robotics, Arduino, sensors, electronics, automation, coding, and hands-on STEM activities.
- Facilitated live demonstrations, guided participants through builds and troubleshooting, and adapted explanations for different age and skill levels.
- Prepared workshop plans, presentations, activity sheets, learning materials, and post-session documentation.

Junior Scientist / Technical Documentation Creator | Project-Based

- Created structured science and STEM documents, project notes, activity instructions, technical explanations, and reports.
- Researched technical concepts and converted them into clear, learner-friendly content with consistent formatting and logical organization.

EDUCATION

Bachelor of Technology (B.Tech) - Electronics & Communication Engineering Aug 2019 - Jun 2022
Vignan Institute of Management and Technology for Women | JNTUH