

Santhosh Phanitalpak Gandhala

Pune, Maharashtra, India • gsanthoshphanitalpak@gmail.com • +91 8179439677

[linkedin.com/in/santhosh-phanitalpak-gandhala](https://www.linkedin.com/in/santhosh-phanitalpak-gandhala) • [santhosh-gandhala-google scholar](https://scholar.google.com/citations?user=gsanthosh-phanitalpak-gandhala) • [gsphanitalpak-github](https://github.com/gsanthosh-phanitalpak)

PROFESSIONAL SUMMARY

Motivated Computer Science & Engineering graduate with extensive experience in research, development, and technical support. Proficient in a range of programming languages, frameworks, and tools, with a strong focus on machine learning, IoT, and web development. Published multiple papers and led innovative projects, showcasing excellent technical, analytical, and leadership skills.

EXPERIENCE

Software Developer Intern | Subject Matter Expert ITC

Byline Learning Solutions (December 2024 – April 2025)

- Developed scalable **PHP**-based **WordPress templates**, reducing content deployment time by 40% for an education **CMS** aligned with KODEIT's ITC curriculum.
- Architected and coded multiple executable **robotics** and **embedded systems** projects (Arduino/Raspberry Pi) featured in a nationally distributed project booklet.
- Integrated simulations and code samples into a companion **Robotics** chapter for an ITC textbook, improving adoption in over 25+ institutions.
- Reviewed and debugged educational codebases and documentation as a Subject Matter Expert (SME), ensuring consistency with real-world development standards.

R&D Intern

M/s TECHNOSPHERE (January 2024 – May 2024)

- Supported RTL design and logic simulation in VLSI model development using Verilog and Xilinx Vivado.
- Refactored and optimized React.js-based frontend for the internal R&D dashboard, improving usability and modularity.
- Customized and maintained WordPress-based micro-sites with plugin enhancements and analytics integration to support project lifecycle visibility.

Software Developer Intern | Volunteer

DOOR STEP SCHOOL (July 2023 – December 2023)

- Designed and deployed a **Donor Management System** using MySQL and PHP, streamlining donor records and donation tracking for over 300 stakeholders.
- Optimized WordPress backend for their main site, improving content editing efficiency and reducing bounce rate via responsive design tweaks.

EDUCATION

Symbiosis Institute of Technology

Bachelor of Technology in Computer Science & Engineering (2020 – 2024)

- Completed six project models, submitted multiple conference papers, and led a team to develop "StressSense" (IoT & ML fusion).

Sri Chaitanya Junior College

Intermediate Education, MPC (2017 – 2019)

- Completed with a percentage of 89.1

TECHNICAL SKILLS

- Artificial Intelligence & Machine Learning** (Deep Learning, Computer Vision, NLP)
- Robotics & Automation** (ROS, Embedded Systems, Control Systems)
- IoT & Embedded Development** (Arduino, Raspberry Pi, Sensor Integration)
- Programming Languages** (Python, C++, JavaScript)
- Algorithms & Data Structures** (Optimized Coding, Path Planning, Search Algorithms)
- Full-Stack Development** (React, Node.js, Flask, Firebase)
- Cloud & DevOps** (AWS, Azure, Docker, Kubernetes, Jenkins, GitHub Actions, Terraform, Ansible, CI/CD Pipelines)
- Computer Vision** (OpenCV, TensorFlow, PyTorch)
- Mathematical Modeling & Simulation** (MATLAB, TinkerCAD, Fritzing)
- 3D Designing & Prototyping** (TinkerCAD, Wylidrin, Blender)

CERTIFICATIONS

- Basics of Cloud Computing by Curza (2023)
- Ethereum Blockchain Developer Bootcamp with Solidity by Udemy (2023)

SOFT SKILLS

- Problem-Solving & Critical Thinking
- Research & Analytical Skills
- Creativity & Innovation
- Adaptability & Continuous Learning
- Leadership & Team Collaboration
- Effective Communication & Technical Writing
- Time Management & Project Planning

ADDITIONAL INFORMATION

- Languages:** English (Business Level), Hindi (Business Level), Telugu (Native), Limited Working Proficiency in Japanese (N5) and Spanish.
- Global Exposure:** Participated in a Japan study tour, attending lectures at Chiba University and Ritsumeikan University.
- Career Interests:** Robotics, Advanced Machine Learning Interventions, Cybersecurity in Robotics, Automation Security.

PUBLICATIONS

VISHWACON-2023	ICRIC-2023 Vol-2	ICAECT-2024	ACOIT-2024	ICDSM-2024
ICETI4T-2025				