

MSG Swarupa

Information Science & Engineering | Batch 2023–27 | **Cambridge Institute of Technology, Bengaluru**
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PROFESSIONAL SUMMARY

Information Science Engineering student with experience in Android development, server management, home lab infrastructure, network administration, and full-stack development. Skilled in creating complete software solutions, including custom Android launchers and LinuxTV, while managing self-hosted systems and deployment environments. Seeking an SDE/DevOps/Tech Support role to build scalable applications, automate infrastructure, and deliver reliable technology solutions.

WORK EXPERIENCE & INTERNSHIPS

Freelance Software Engineer, Bengaluru

Feb 2023 – Present

Self Employed

- Developed and delivered custom software solutions including Android applications, web applications for clients.
- Designed, deployed, and maintained production ready applications with focus on scalability, performance, and user experience.

PROJECTS

LinuxTV – TV Media Launcher with Mobile Remote & Custom Linux ISO

Nov 2025 – Present

- Developed and designed a TV-first app launcher for Linux system.
- Transformed a regular PC into a more user-friendly experience for living rooms.
- Built complete fullscreen TV launcher (Python/PySide6) with WebSocket-based mobile remote (React Native/TypeScript) and automated ISO builder (bash/live-build) packaging Debian distribution with pre-installed media apps.
- Engineered system integration: systemd auto-login, X11/Plymouth boot customization, secure phone authentication with real-time bidirectional control (navigation, volume, brightness, system power), and config-driven app detection
- Deployed hybrid USB-flashable ISO with preseed installer supporting both live-boot and persistent installation

Launch – Productive Launcher

Feb 2025 – Present

- Developed a clean, efficient, and minimalist Android launcher in Kotlin focused on user productivity and focus
- Engineered core launcher functionality with performance optimization and minimal resource consumption
- Designed with emphasis on simplicity and usability to minimize distractions

GitXplain(gx) – AI-Powered Git Analysis Tool

Mar 2026 – Present

- Engineered an AI-powered Git assistant that automatically analyzes and explains code changes across commits, branches, and diffs. Built with JavaScript to process Git metadata and generate structured, human-readable explanations of code modifications, enabling developers to quickly understand repository changes without manual review.
- Supports comprehensive Git analysis including individual commits, commit ranges, branch comparisons, and merge conflict resolution with contextual explanations
- Generates clear, structured explanations of code modifications in natural language, helping developers quickly understand repository history and changes without diving into raw diffs.
- Packaged and deployed on NPM, AUR, Custom Homebrew.

SKILL

Technical: Linux, Server Management, Android Development, Git, Shell Scripting, Java, Python, Docker, Kubernetes, SQL, CyberSecurity

Domain: Network Administration, Server Management, Automation, SDE, Network Orchestration, Tech Support

Soft Skills: Leadership, Creativity, Cross-functional Collaboration, Conflict Resolution, Public Speaking, Quick Learner

Languages: English — Proficient (C1) | Kannada — Fluent | Hindi — Conversational

CERTIFICATIONS & TRAINING

• **Samsung Innovation Campus Trainee IoT - Samsung**

Jun 2025

• **Networking Basics** — Cisco Networking Academy

• **Introduction to Cybersecurity** — Cisco Networking Academy

• **Introduction to AWS Cloud** — AWS Skill Builder

CO - CURRICULAR & LEADERSHIP

TEDxCITBengaluru

Dec 2023 – May 2025

Tech Team

- Contributed to the transformation of the TEDxCITBengaluru website into a more automated and scalable platform. This project aimed to streamline operations, enhance ticketing, and improve recruitment workflows, ultimately delivering a better experience for both organizers and attendees.

Microsoft Student Ambassador Club, CIT, Bengaluru

Jun 2024 – May 2026

Tech Team

- Contributed to organizing technical initiatives, workshops, and developer-focused events while supporting the team in building and managing technology-driven solutions.

Open Source Contributions

- Contributed to Linutil by Chris Titus Tech, a distro-agnostic Linux toolbox for automating system setup and maintenance tasks, by improving scripts and usability features. Helped enhance the experience for Linux users by simplifying common administrative workflows and reducing manual configuration effort and added scripts to simplify onboarding to Linux OS.
- Contributed to Nixopus, an open-source alternative to platforms like Vercel, Heroku, and Netlify, by improving simplified deployment workflows and developer experience. Helped enhance self-hosted application deployment by contributing to features and optimizations that make DevOps workflows more accessible.

ACHIEVEMENTS & AWARDS

- Secured wins in multiple national hackathons and deployed several applications to production, showcasing rapid development, technical execution, and solution-building capabilities.

EDUCATION

Cambridge Institute of Technology, Bengaluru	Sep 2023 – Jun 2027 (Expected)
Bachelor's Degree in Computer Science CGPA: 8.16 / 10.0	
Vagdevi Vilas Institution, Bengaluru CBSE	Class XII: Apr 2023 · Class X: Apr 2021
Class XII — 80.8% Class X — 88.4%	