

JUPAKA SATHWIK

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[Jupaka Sathwik / LinkedIn](#)

<https://github.com/sath>

Education

SR University

Bachelor of Technology in Electronics and Communication Engineering , 7.6 CGPA

Nov. 2021 – May 2025

Hanamkonda, Telangana

Technical Skills

Languages: Java ,Python, C, HTML, CSS, JavaScript, SQL , Git , GitHub

Java: OOP, Collections Framework, Exception Handling

Operating Systems : Linux administration , Windows Administration

Developer Tools: Visual Studio Code, Google Collab, GitHub, Arduino

Additional Sills : Networking Cisco Packet , Auto-cad , Fusion360 , Power shell scripting

Relevant Coursework

- | | | | |
|--------------------|-----------------------|---------------------------|---------------------|
| • Data Structures | • Operating Systems | • Analog Circuit analysis | • Computer Networks |
| • Signals & System | • Database Management | | |

Experience

Capgemini Technology Services India Ltd (Trainee)

30th SEPT - 8th DEC 2025

Associate Software Engineer(Trainee) – (Cloud Infrastructure Management)

Duration: 2Months

- Completed intensive training in **Linux Administration**, **Windows Server Administration**, and **Networking fundamentals**.
- Worked on **Linux system operations** including user management, file permissions, process monitoring, and basic shell commands.
- Gained hands-on exposure to **Windows Server administration**, including Active Directory basics, user/group management, and system configuration. Gained exposure to system-level problem solving and troubleshooting.
- Learned **computer networking concepts** using **Cisco Packet Tracer**, covering: OSI & TCP/IP models , IP addressing & subnetting , Routing and switching fundamentals
- Developed strong understanding of operating systems, computer networks, and enterprise IT systems.

Projects

MOVIE RECOMMENDATION SYSTEM | Python , Flask, DSA, Machine Learning

(Java-based DSA version in progress)

Jan – April 2024

- Designed and developed a **web-deployed Movie Recommendation System** within **4 weeks** using **Python and Flask**.
- Implemented a **popularity-based recommendation algorithm** using **Hash Maps and arrays** to efficiently rank movies based on user ratings and vote counts.
- k Optimized movie filtering and sorting logic using **custom sorting techniques**, reducing recommendation computation time.
- Processed and analyzed large datasets (1950–2016) using **efficient data structures** to ensure fast lookup and scalability.

Smart Blind Stick using Arduino | C++, Arduino

April – Nov 2023

- Developed a Smart Blind Stick to aid visually impaired individuals in navigating their surroundings independently and safely
- The stick is integrated with ultrasonic sensor for obstacle detection and it will trigger the buzzer which will alert the person by making the sound .
- I have given threshold value, so if the sensors read the value more than threshold value then alarm

Certifications

- Cyber Security & Essentials - Coursera
- Java with DSA – Apna-college
- Java fundamentals – EDX
- Computer Networking – Coursera
- Machine Learning for all - Coursera