

# KARTHEESAN SENTHILKUMAR

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## SUMMARY

Practical and adaptive Computer Science student with strong skills in full-stack development, backend API design, and secure application architecture. Experienced in building user-focused systems and passionate about delivering reliable, real-world solutions. Highly interested in machine learning, cloud computing, and full-stack, with a hands-on approach to problem-solving and continuous learning.

## ACHIEVEMENTS AND EXTRA CURRICULAR

**Pentathon 2025** May 2025

- Secured **AIR 19** out of 22000 participants from all over India in **Pentathon**, a national Cyber Security Capture The Flag(CTF) event organised by AICTE. Worked on reverse engineering, web exploitation and cryptography.

**Tech Head, FORESE Club** Dec 2024 - Present

- Developed web apps for the club's events and internal usage.
- Utilized the React framework alongside Node.js and MongoDB, POSTGRESQL to build robust, scalable full-stack web applications. Deployed the web applications to the cloud using Digital Ocean's droplet service.
- Collaborated with cross-functional teams to gather requirements, troubleshoot issues, and deploy updates.
- Implemented an automated CI/CD pipeline ensuring continuous deployment with zero user downtime.

## PROJECTS

**C-Sar** September 2024

Denoising and Colorizing SAR Images Using CNN models

- Developed a deep learning pipeline to enhance SAR images by denoising and colorizing them.
- Applied DnCNN to effectively remove speckle noise while preserving image details.
- Used a conditional GAN (cGAN) for realistic colorization, trained on paired SAR and RGB satellite images.
- Improved visual interpretability of SAR data for remote sensing and analysis tasks.
- Developed a web application that integrates machine learning model for colorizing SAR images.
- Reduced load time by optimizing backend processes, enhancing user experience significantly.
- Technologies used: TensorFlow, Flask, React.

## SKILLS & TOOLS

Full-stack development	Machine Learning	SQL	Leadership
Dev Ops	Cloud Computing	Git & Github	Problem Solving

## EDUCATION

**B.E Computer Science and Engineering** 2022 - 2026

Sri Venkateswara College of Engineering

- Relevant coursework in CS Fundamentals and Mathematics.

## ADDITIONAL INFORMATION

- Languages:** English, Tamil
- Programming Languages:** Java, Python, C, JavaScript
- Certifications:** Machine Learning Foundation Certification, TechA MERN Stack Developer Certification(Infosys Springboard)