

ASHA R

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SUMMARY

Full-stack developer with hands-on experience in Java, Spring Boot, Hibernate, and MySQL. Built secure, end-to-end web applications with RESTful APIs, media handling, and role-based authentication. Strong in backend architecture, database optimization, and clean code practices. Actively seeking a software developer role to build scalable, real-world solutions.

EDUCATION

KLN COLLEGE OF ENGINEERING

Aug 2021-May 2025

- Bachelor of Technology – Information Technology. – 7.8 (CGPA)

SRI SARADA VIDYAVANAM GIRLS MATRICULATION HR.SEC.SCHOOL

- Higher Secondary – 86.5%
- SSLC – 84.6%

May 2020 – Mar 2021

May 2018 – Mar 2019

PROJECT

IoT – ENABLED FIRE EXTINGUISHING ROBOT - Designed and developed an autonomous fire-response robot using ESP32, flame/smoke sensors, and motor control systems. Implemented real-time fire detection, obstacle navigation, and automated water-based suppression. Integrated Blynk IoT for live monitoring and alerts, improving safety response through remote visibility and automation.

REAL-TIME OBJECT DETECTION -Built a computer vision system using Python, OpenCV, YOLOv3, and MobileNet-SSD to detect objects in images, videos, and live webcam feeds. Applied confidence filtering and Non-Maximum Suppression (NMS) to enhance detection accuracy. Optimized inference pipelines with FPS monitoring for real-time performance in production-like environments..

SMART GROCERY EXPENSE TRACKER - Developed a Java-based inventory and expense management system using JSP, Servlets, JDBC, and MySQL with full CRUD functionality. Implemented MVC architecture and DAO pattern for clean code structure and maintainability. Added features such as search, sorting, and expiry tracking to improve data accuracy and user efficiency.

ANONYMOUS CONFESSION WALL- Built a full-stack application using Java 17, Spring Boot,Hibernate (JPA), and MySQL enabling anonymous posts with image/video uploads. Designed RESTful APIs for content moderation, JWT-based admin authentication, and role-based access. Optimized database queries and pagination to improve performance and ensure secure, scalable content management.

EXPERIENCE

DEVELOPER AND TECHNOLOGY JOB STIMULATION – ACCENTURE

Finished Accenture's Developer and Technology Virtual Internship through Forage with practical work on SDLC, Agile and Waterfall methodologies, STLC, algorithmic design, and code debugging from January to February of 2025. The program enhanced my tech consulting abilities and problem-solving skills while providing me with meaningful experience in the software development processes and methodologies through real-life simulations.

SKILLS

- **Programming Languages:** Java, Python (Basic),C- Programming.
- **Database:** MySQL.
- **Developer Tools:** Eclipse, Visual Studio Code ,MySQL Workbench, Git, Arduino IDE, Jupyter Notebook, Virtual BoxExcel, PowerPoint.
- **Operating System:** Windows
- **Soft Skills:** Problem Solving ,Code Debugging ,Communication.

CERTIFICATION

- **NPTEL:** Design and Implementation of Human Computer Interface .
- **NPTEL:** Affective Computing.
- **PROMPTINFOTECH:** Cyber Security

ACHIVEMENTS

- **Presented Project at INNOFESTA'23 – National Level Project Contest** - Participated in *Innofesta'23*, showcasing the "IoT-Based Water Management System". Demonstrated the project in front of judges and peers; received a Participation Certificate and valuable feedback.
- **“IoT Enabled Fire Extinguishing Robot “ Conference Paper Submission -ICICT 2025-** Co-authored and submitted a research paper titled "IoT-Enabled Fire Extinguishing Robot" to the International Conference on Intelligent Computing Technologies (ICICT 2025). The paper detailed the system design, sensor integration, and automation approach using ESP32, contributing to innovation in smart safety solutions.

I affirm that the details are shared and correct and up to my knowledge.