KEERTI MADHUVANTIKA A

Phone: 8825962136 | **Email**: keertimadhuvantika.a2022ece@sece.ac.in | **GitHub** | **LinkedIn** | **Portfolio**

EDUCATION

Sri Eshwar College of Engineering	**B.E.(ECE)**	**CGPA: 9.12** (upto 4th sem)		**2022-2026**
Bharathiya Vidya Mandir Matric Higher Secondary School	**HSC**	**93.83%**		**2020-2022**
Bharathiya Vidya Mandir Matric Higher Secondary School	**SSLC**	**85%**		**2019-2020**

INTERNSHIPS

MERN Stack - Better Tomorrow   **2024**

Leveraged MERN Stack expertise for robust API development, contributing to real-world projects with improved response times and query efficiency, while enhancing scalability and maintainability in diverse applications.

Embedded Systems - Artiwiz Technologies   **2024**

Gained valuable experience with 8051 microcontrollers in assembly programming and STM32 controllers, focusing on ARM Cortex-M, PWM, and I2C/SPI communication, with additional work in real-time signal processing.

PROJECTS

AgriSense: Revolutionizing Plant Management and Enhancing Farming Efficiency   **2024**

Developed a plant management system with real-time environmental monitoring, offering features like crop disease prediction, crop and fertilizer recommendations, animal and pest detection, and a support chatbot.

Tech stack : Embedded Systems and IOT, MERN Stack, Arduino IDE

MetroMinds: Innovative Urban Management System   **2024**

Implemented an AI-powered system using the MAX78000FTHR for earthquake prediction, flood monitoring, traffic management, waste management, and noise monitoring, complemented by a web app for real-time insights and control.

Tech stack : Embedded Systems and IOT, Full Stack, Eclipse MaximSDK

Smart Cart Billing System   **2023**

Developed an automated billing system that streamlines checkout with in-cart barcode scanning, automatic quantity adjustments, and secure online payments via generated QR codes, also by providing real-time price updates.

Tech stack : Embedded Systems and IOT, Arduino IDE

Stock Portfolio Tracker   **2023**

Created an app that optimizes stock management through real-time monitoring, personalized alerts, and advanced analytics, boosting decision-making efficiency with intuitive data visualizations and trend analysis.

Tech stack : Javafx, MySQL, Eclipse IDE, SceneBuilder

CERTIFICATIONS

Postman API Fundamentals Student Expert certification | **Postman and GeeksforGeeks**	**2024**
Introduction to MongoDB for Students | **MongoDB**	**2024**
SQL Certifications from HackerRank | Validates SQL skills for DBMS | **HackerRank**	**2024**
Python Certifications from HackerRank | Validates proficiency in Python Programming | **HackerRank**	**2024**
Mastering Data Structure and Algorithms Using C and C++ | Advanced DSA learning course | **Udemy**	**2023**
Programming in Java | Comprehensive Java programming course | **Nptel**	**2023**

ACHIEVEMENTS

CodeChef	Secured Highest Rating of **1052** | **Profile**
LeetCode	Secured Highest Rating of **1630** | **Profile**
HackerRank	Achieved 2 stars in Java, 1 star in C, 1 star in SQL | 3 Badges | **Profile**
Ninjacart Hackathon	Won **1st runner-up position** with a cash prize of INR 50,000 hosted at Ninjacart, Bangalore
Pravaah Hackathon	Top 15 finalist among 635 entries organized by Quadrant Technologies, Hyderabad
Tech Trek	Won **1st place** in an 8-hour non-stop hackathon organized by App Innovation Technologies
ACETTECH FEST	**1st place** in the Paper presentation at Akshaya College of Engineering and Technology
Project Leap	Secured **2nd place** in Java Sprint Week 2023 conducted for JavaFX and MySQL
KRISHNECS 2023	**3rd place** in the Ideas Ignite at Sri Krishna College of Engineering and Technology
Project Expo 2023	Clinched **1st place** in the First Year Project Expo exclusively held for First Year students

SKILLS

Programming	C | Java | Python | HTML | CSS | JavaScript | Embedded C | Verilog HDL
Core	Embedded Systems and IOT | Data Structures and Algorithm | OOPs
Databases	MySQL | MongoDB
IDE	VSCode | Eclipse | Arduino | IntelliJ IDEA | ModelSim | MultiSim | STM32 Cube IDE | Proteus
Tools	Figma | Canva | GitHub | COLLAB