MEDAGAM V S MANJUNADHA REDDY

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Summary

Passionate engineer with skills in PHP, Python, Java, Git, and AloT. Experienced in software development and database management. Developed an Employee Email Database Management System for TANGEDCO, officially used by the government of Tamil Nadu. Always eager to tackle complex problems and create efficient solutions.

Education

S.R.M INSTITUTE OF SCIENCE AND TECHNOLOGY B.Tech in CSE with Specialization in Information Technology · Computer Science · Kaatankulathur, Chennai VELAMMAL INTERNATIONAL SCHOOL 12th · AISSCE · Ponneri, Chennai BIVINE CHILD SCHOOL 10th · AISSE · Mehsana, Gujarat Sep 2022 - May 2026 8.50 8.50 8.50 For a support of the science · 8.50 For a support of the science

Experience

TANGEDCO(TamilNadu Generation And Distribution Corporation Limited)

Jun 2024 - Jul 2024

Software Engineer Intern · Developer · Full Time

Chennai

- Developed a comprehensive Employee Email Database Management System for the Tamil Nadu Electricity Board (TNEB).
- Designed and implemented an SQL-based database to securely store and manage employee email information.
- · Ensured data integrity and security through encryption protocols and access control mechanisms.
- Created a user-friendly interface to facilitate efficient data entry and retrieval.
- Streamlined internal communication processes by automating notifications and updates to employees.
- Collaborated closely with stakeholders to gather requirements and identify key features for the system.

Projects

TANGEDCO Employee Email Database Management System | Link

Jun 2024 - Jul 2024

TANGEDCO(TamilNadu Generation And Distribution Corporation Limited) · HTML, CSS. JS. PHP

Web Development

Web application for the Tamil Nadu Electricity Board (TNEB) that streamlines user management and access control. The website features a unified database of employees email and ensure appropriate data visibility and security. It includes robust session management to maintain secure user authentication and a well-optimized database to handle and efficiently manage user data.

Image Quilting for Texture Transfer and Synthesis

S.R.M INSTITUTE OF SCIENCE AND TECHNOLOGY \cdot Python, HTML, Tailwind, Javascript,

Python, Web Development

Full stack web application built with HTML, Tailwind CSS, JavaScript, and Python, backed by MongoDB for secure user authentication and session management. The platform supports dynamic image upload, customizable dimension input, and advanced Gaussian based patch synthesis for seamless image quilting and texture transfer. Real time previews and cache busting techniques ensure immediate feedback. Asynchronous JavaScript and RESTful API endpoints optimize performance and scalability, delivering high resolution texture generation and a responsive user experience.

IoT-Based Automated Energy Conservation System | Link

S.R.M INSTITUTE OF SCIENCE AND TECHNOLOGY · Python, BASH, JSON, Git

IOT

Developed and deployed a production gradeJetson Nano-powered IoT solution integrating YOLOv5 human detection with Arduino controlledelay switching to optimize facility lighting. Leveraged real timevideo analytics on NVIDIA Jetson Nano for occupancy sensing, seamlessly interfaced with Arduino Mega via UART to actuate power relays. Achieved average monthly savings of 3,287 per lab floor, enhancing operational efficiency. Utilized Python, SSD MobileNet V2, and RESTful telemetry for remote monitoring and data driveninsights.

Skills

HTML, CSS, Tailwind CSS, Python, Java, AloT, MongoDB, Database Management, Git

Certifications

ORACLE JAVA SE 11 DEVELOPER | Link

Feb 2025 -

ORACLE · 317429087OCPJSE11

ORACLE CLOUD INFRASTRUCTURE | Link

Feb 2025 -

ORACLE · 317429087OCI2024FNDCFA

SERVICE NOW CERTIFIED SYSTEM ADMINISTRATOR \mid Link

Jan 2025 -

SERVICE NOW · 26606060

Languages

English [Professional Working Proficiency], Telugu [Native Proficiency], Hindi [Native Proficiency], Gujarati [Native Proficiency], Tamil [Limited Working Proficiency]

Links

LinkedIn