KEERTHANA M G

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EDUCATION

RAJALAKSHMI ENGR. COLLEGE
2022–2026
B.E Computer Science Engineering
CGPA - 8.41

SHREE NIKETAN MAT.HR.SEC.SCHOOL
HSC 2022 - 98%
SSLC 2020 - 98%

SKILLS

PROGRAMMING LANGUAGES
- Java
- Python
- C
- Javascript

FRAMEWORKS & LIBRARIES
- Express.js
- Flask
- React
- Bootstrap
- Node.js
- Django
- Flutter
- Scikit Learn

TOOLS
- Git & Github
- Postman
- Flutterflow
- StarUML

DATABASE
- MySQL
- PostgreSQL
- Firebase
- MongoDb

SOFT SKILLS
- Communication
- Event Planning
- Team Coordination
- Idea Pitching

CERTIFICATIONS

- Machine Learning A-Z [Udemy]
- Web development frontend certification [Sudharshanam IT Academy]
- Prompt Engineering [Linkedin]

EXTRA-CURRICULARS

PRESIDENT
INTELLEXA REC - TECHNICAL CLUB

DEVELOPER & SPONSORS HEAD
FLUTTERFLOW DEVELOPERS COMMUNITY

EVENT MANAGER
ENTREPRENEURSHIP DEVELOPMENT CELL

COORDINATOR (HACKATHON)
HACKMAGEDDON - 24 HR HACKATHON

COORDINATOR (OPEN-SOURCE)
GITRECQUEST 2025 , CSSOC 2024

OPEN-SOURCE CONTRIBUTOR
GSSOC

ABOUT ME

A curious and driven tech enthusiast with a passion for learning and building. My journey started with web development, gradually expanding into mobile apps, machine learning and backend systems. I enjoy exploring into technologies, solving problems, and continuously improving my skills. Excited to grow, collaborate, and contribute to meaningful projects.

WORK EXPERIENCE

ZAKAPPS – SOFTWARE DEVELOPMENT INTERN   JAN – FEB 2025
- Built a Node.js-based Asset Management System handling 1,000+ assets, reducing issue resolution time by 30%.
- Designed RESTful APIs with Node.js & Express.js, improving data retrieval speed by 25%.
- Gathered requirements from 5+ stakeholders to define clear backend workflows and user stories.
- Collaborated with a 4-member team for code reviews.

PROJECTS

RENEWIFY – SOLAR ENERGY AGGREGATOR APP   [LINK]
Technologies used : Flutter , PostgreSQL, Google Maps API
- Led a 5 member team and developed a responsive Flutter-based application interface, improving user engagement by 30% guiding them throughout solar adoption journey.
- Designed a scalable PostgreSQL-powered DB for stakeholders.

GARBYCLE – SMART WASTE MANAGEMENT   [LINK]
Technologies used : HTML, CSS, SEO techniques, Javascript
- Built a frontend web application with HTML, CSS, and JavaScript, supporting 4 distinct user logins and processing sequential waste collection requests monthly.
- Integrated OpenStreetMaps API for real-time waste tracking, reducing pickup delays by 40%.

AERIAL INSPECT – BIPV ASSESSMENT AND 3D VISUALISATION
Technologies used : Three.js, React, PostGIS, QGIS
- Fetched and processed geospatial data from open-source APIs and Django, optimizing solar assessment for 10,000+ buildings and researched Solar irradiation formulas.
- Implemented raycasting on 3D structures using Three.js, improving solar potential accuracy by 25%.

ACHIEVEMENTS

- Runner-up at Happyfox Hackathon 2025
- SIH 2024 Finalist under ISRO's problem statement.
- Runner up at PEC Hacks 2.0 - national level hackathon.
- Best Software Project Award at Designathon 2024
- Top 5 at iTNT Innovation Challenge 2024 organised by TN Govt.

PAPER PUBLICATIONS :
- **E-waste facility Locator App:** Built a geospatial mapping system with OSM & Flask, optimizing waste facility detection by 30% efficiency improvement.