GANESH MEDICHELIMALA

📞 6302946007 ✉ ganeshmedichelimala@gmail.com 🔗 linkedin.com/in/ganesh-medichelimala 〈/〉 Leetcode

Education

Matrusri Engineering College **June 2021 – July 2024**
B.Tech, Computer Science and Engineering, CGPA: 6.72 *Hyderabad, Telangana*

Singareni Collieries Polytechnic **2018 – 2021**
Diploma, Computer Science and Engineering, CGPA: 7.69 *Mancherial, Telangana*

ZPSS Theegalpahad **2017 - 2018**
SSC, CGPA: 7.5 *Mancherial, Telangana*

Projects

IoT-Enabled Health Monitoring with Hyperledger Fabric | *Python, Arduino, SP02 Sensors* **March 2024**
- Engineered a system using temperature, heart rate, blood pressure, and SPO2 sensors, monitoring over 100 patients' health data continuously. Stored data securely in **Hyperledger Fabric**, enabling real-time and tamper-proof record-keeping.
- Implemented a **role-based access control** system for 4 user roles (Admins, Doctors, Nurses, Patients), streamlining operations and ensuring secure data management. Facilitated real-time health data visualization, enhancing medical interventions for over 50 patients.
- Enhanced treatment accuracy by 30% and healthcare outcomes through comprehensive data analysis for timely **medical intervention**.

Trust Vault | *Node.js, Express.js, PostgreSQL, REST APIs* **January 2024**
- Developed a secure web application for storing and sharing **sensitive data** with nominated individuals during emergencies.
- Integrated JWT authentication and bcrypt **password hashing**, enhancing login security and user data protection, reducing unauthorized access risks by 70%.
- Established a secure data transfer mechanism to nominated individuals through a safety question protocol, increasing **data transfer reliability** and user trust by 40%.

Cyber Safety Companion App | *Python, Machine Learning* **June 2023**
- Engineered an SMS-based system that scans and identifies over 100+ potentially harmful website links daily, alerting users to cyber threats and protecting them from malicious content.
- Integrates a swift **SOS service** allowing users to quickly share their precise location with designated contacts in critical situations such as harassment or threats, ensuring timely help and support.
- Offers a robust **password generator** that creates strong, difficult-to-crack passwords based on user-defined criteria. Additionally, includes a secure password manager for organizing and storing credentials securely across multiple online platforms.

Technical Skills

- ∗ **Programming Languages** : , Java
- ∗ **Frontend** : HTML, CSS, Javascript, React.js, Tailwind CSS
- ∗ **Backend** : Node.js, Express.js
- ∗ **Database Systems** : MySQL, MongoDB
- ∗ **Developer Tools** : VS Code, Git, GitHub, Postman

Certifications

- 0-1 Fullstack Web Development Course by Harkirat Singh : 🔗
- Python Complete Course for Beginners by Horizon Tech Udemy : 🔗