P Satish

Full-Stack Web & App Development | Second Year Undergraduate, IIT Tirupati
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EDUCATION

B.TECH ,CSE
IIT Tirupati
2023-27 | Tirupati
CGPA : 9.52

INTERMEDIATE (MPC)
Aditya Junior College
2023 | Amalapuram
Marks : 985/1000

SSC (10TH CLASS)
Sri Balaji High School
2021|Mummidivaram
Marks : 595/600

COURSEWORK

- Software Engineering
- Software Systems and Tools Lab
- Object Oriented Programming
- Computer Programming
- Data Structures and Algorithms
- Introduction To Data Science and Machine Learning

SKILLS

Languages:
C++, Python, Java, JavaScript, C, SQL, Kotlin, C# (Beginner)
Frontend:
- HTML, • CSS • React.js
Backend:
- Express.js • Node.js • Flask
Databases:
- MongoDB • SQL •VectorDB (AstraDB)
Tools & Frameworks:
Git, VS Code, Unity,TensorFlow,Docker ,Android Studio,.NET(Beginner),Unit Testing,Hugging Face, Colab Notebook
Soft Skills:
Problem-Solving, Teamwork,Adaptability, Communication, Growth Mindset

SUMMARY

Second-year CS student at IIT Tirupati (CGPA: 9.52) with expertise in software engineering, debugging, and testing. Skilled in web & Android development, backend systems, and AI applications. Passionate about building scalable solutions and enhancing software quality. Excited to collaborate with Microsoft mentors and drive innovation.

ACADEMIC PROJECTS

EASE NVESH | Senior-Friendly Chrome Extension
JavaScript | HTML | CSS | Node.js | Express.js | MongoDB
- Designed and developed a **Chrome extension** to enhance **web accessibility for elderly users**, ensuring **usability, security, and navigation**. **Built** core features such as **Detox Search,VideoTutorials**, **Screen Reader&Recorder** , **Voice Commands,Ad Blur**, **Accessiblity widgets** and **Security Scans** .
- Led the development of **Login,detox search,video Tutorials, UI,DataBase, backend authentication,Font Settings,Requirements,Class Diagrams** ensuring seamless component **integration and quality** through efficient debugging,**Unit testing** and software engineering best practices. .

ECHOHEALTH | An Ear Health Monitoring App
Kotlin | Room Database | Jetpack Compose | Android Audio APIs

- Developed a **mobile app** to promote **ear health**, aligning with the SDG goal of **Good Health and Well-being**, by addressing risks of **prolonged noise exposure** . Integrated **Virtual Ear Animation, Real-Time Sound Monitoring, Hearing Tests, and Audiogram Generation** to track hearing health.
- Designed the system architecture and led the development of **Virtual Ear Animation, Decibel Recorder, Results Screen, UI, Database, Backend Authentication,Navigations & Integration** .Ensured **quality** through software engineering best practices, **debugging, and unit testing** for stability

PRITHVI_MARG | Interactive Educational Game on Ecology
Unity | C# | .NET (Beginner) | Canva (UI/UX)
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- Developed a **mirror maze game** with **ecological mini-games** to promote **sustainability and wildlife conservation**. Integrated **dynamic navigation, teleportation challenges, and adaptive mini-games** .Led the design and Development of **Animal Linking to Habitats,Dry and Wet Waste Sort,** integration, debugging, and unit testing of all project components.

PROJECTS

MEDIBOT | AI-Powered Multilingual Medical Chatbot
Python | Flask | Html | CSS | Llama-3.1-70B-Versatile | Hugging Face
- Developed and deployed an advanced **AI-driven medical chatbot** with **voice-to-text, text-to-speech, and multilingual support**, enabling users to communicate in their **native language** and receive **accurate medical information**.Ensured accuracy using **context-aware NLP models**,enhancing healthcare accessibility while promoting professional consultation.

RESUMEGEN AI | AI-DrivenFullStack Resume Optimizer Platform
React.js | MongoDB | Express.js | Node.js | Python | Flask
- **D**eveloping a full-stack AI-powered tool for resume enhancement, leveraging **AI** for career guidance and interview preparation. Features **ATS analysis, resume building, AI career coach, mock interviews, AI cover letter generation, and AI interview question generation** to optimize job applications.

AWARDS & ACHIEVEMENTS

- Qualified AlgoUniversity Technology Fellowship (Stage 1) – Ranked in the top 4,000 among 20,000+ participants in a competitive coding challenge
- Received an award from school management for academic excellence, recognizing outstanding performance .