Abhineeth Babu

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EDUCATION

Indian Institute Of Information Technology, Design and Manufacturing　　Kurnool, AP
Bachelor of Technology in Computer Science — CGPA:7.29　　*Sept. 2020 – Present*

Chinmaya Vidyalaya　　Thrissur, KL
Higher Secondary — Percentage: 81%　　*Jun. 2017 – May 2019*

TECHNICAL SKILLS

Languages: C/C++, Python, SQL, JavaScript, HTML, CSS
Frameworks: React.js, Node.js, Express.js, MongoDB, Material-UI
Developer Tools: Git, Github, Docker, VS Code, Visual Studio, PyCharm, Atom
Libraries: pandas, NumPy, Matplotlib, STL, SMTPlib, OpenAI-Whisper, SpeechRecognition, pocketsphinx, Socket, pyAudio

INTERNSHIP EXPERIENCE

Department of Navigation and Embedded Computers (DNEC), RCI DRDO |　　Dec 2023 – Present
- Collaborating with the team on the AI-Assisted checkout mechanism, including contributing to GUI development for On Board Computer(OBC) systems using Qt.
- Gaining hands-on experience in implementing AI algorithms in the field of navigation and embedded systems.
- Associating with team members to contribute to project planning and execution.

PROJECTS

LABGuard: Remote Monitoring System | *C++*　　Aug 2023 – Dec 2023
* Engineered a Remote Monitoring System featuring a robust Service Discovery Protocol to facilitate seamless client-server interaction and optimize lab administration
* Implemented a Dynamic Service Discovery Protocol, ensuring continuous broadcasting every 10 seconds for enhanced client-server interaction.
* Ensured uninterrupted connectivity with strong error handling, allowing clients to adapt gracefully to server failures.
* Implemented real-time threat response, enabling clients to detect and report suspicious activities, such as browser presence, and take immediate action by terminating identified processes.

IIITDM Connect | *MongoDB, Express, React, Node, Material-UI, CSS*　　Dec 2022 – Apr 2023
* A Full-Stack social media web application built from scratch using the MERN stack. Maintained the application with over 50+ active users.
* Implemented User Authentication, real-time post creation, likes, dark/light mode, and profile management.
* Incorporated a friend management system that enables users to add and connect with other users, fostering a sense of community and an increase in engagement.
* Thoroughly tested the system with a user base of 53 individuals and a dataset comprising 112 posts to ensure robust functionality and performance.

LEADERSHIP EXPERIENCE

Lead　　Aug 2022 – Present
Roohaniyat Music Club　　*IIITDM Kurnool, AP*
* led and coordinated the Music Club, Supporting a vibrant musical community with 20+ dedicated members while actively contributing as a lead vocalist.

Vice Captain　　Feb 2022 – Nov 2024
Football Team　　*IIITDM Kurnool, AP*
* Served as the Vice Captain of the IIITDM Football team, overseeing a team of 11 starting players and 4 substitutes.
* Contributed to team strategy development and fostered positive and friendly communication with team members to enhance synergy within the group.