Sunny Kumar Yadav

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SKILLS

Languages	: C/C++, Python, JavaScript, HTML, CSS
Frameworks	: PyQt, Bootstrap, Node.js, React.js, Tailwind, SASS, Passport.js
Tools	: SQL, PostgreSQL, Mongoose, MongoDB, Linux, Appwrite, Git/GitHub, Visual Studio
Cources	: DSA, Operating System, Object Oriented Programming, Computer Networks, DBMS

INTERNSHIP & RESEARCH FELLOWSHIP

Software Developer Intern | *Alternate Dynamics*   Mar 2024 - May 2024
- Developed software for a digital spirometer using Python, PyQt, SQL, and PostgreSQL
- Integrated hardware with software through UART communication and built the complete GUI
- Stored patient data and raw pressure data locally and on a server, processing the data to generate insights for lung health

Software Developer Intern | *Flywheel Aerospace*   Sep 2023 - Feb 2024
- Central role in developing and maintaining of a real-time data acquisition system for 9 satellite sensors
- Managed UART data reception, designed PyQt5 GUI, and enabled the capture of 16 distinct data types into Excel files
- Designed software to control the movement of a robotic arm in 6 degrees of freedom, utilizing I2C communication

Research Fellow | *IIT - Roorkee (Chanakya UG Felloship)*   May 2023 - Sept 2023
- Led earthquake rescue robot development with focus on human detection, sensor communication, and data analysis
- Directed seamless sensor integration, coded for operation, and facilitated real-time video output on the network
- Showcased expertise in hardware-software integration, ensuring optimal functionality for critical rescue operations

PROJECTS

Magical Minds | *React, Tailwind, Node, Express, Redux, Appwrite, Tinymce* | Link   Apr 2024
- Developed a responsive blog website using React, Redux, and Appwrite, with text editing via Tinymce React
- Implemented login/signup functionality, enabling users to add, update, delete posts, and view all user posts
- Utilized HTML React Parser for dynamic content rendering and managed forms with React Hook Form

Chat App | *React, Tailwind, Node, Express, Zustand, Socket.io, Daisy UI, Mongo DB* | Link   Jan 2024
- Developed a chat application featuring secure login and signup functionality using JWT tokens
- Implemented real-time messaging capabilities using Socket.io for seamless communication
- Enhanced user experience by incorporating online status indicators for improved interaction

Task Scheduler | *React, Axios, Express, Mongoose, JavaScript* | Version-1 Version-2   Nov 2023
- Developed a task scheduler with local task storage capability on the system, ensuring efficient accessibility of tasks
- Upgraded to version 2 with database support, enabling multi-device functionality for seamless task management

ACHIEVEMENTS

- Achieved University **rank 1** and global **rank 907** in TCS CodeVita, clearing rounds 1 and 2   Jan 2024
- Ranked **3rd** in cozmoclench and **5th** in CoDecode at Techfest Zonals, IIT Bombay   Oct 2023
- Winner of University-level Smart India Hackathon for AI automated irrigation system   Sep 2023
- Placed in the **top 3** teams as winners of a state-level hackathon with iHUB IIT Roorkee, among 50 teams   Apr 2023
- Runner Up in iHub IIT Mandi Hackathon (ML model for Epilepsy detection)   Mar 2023

LEADERSHIP & VOLUNTEERING

Google Developer Student Clubs – GDSC | *IOT & Robotics lead*   Aug 2023 - Present
- Led a community of over **500+ students**, focusing on integrating IoT and development to build projects

THINKBOTS (Robotics Society) | *Co-ordinator*   Apr 2022 - Present
- Guided a group of **50+ students** to provide hands-on experience with robotics hardware and software

EDUCATION

Deenbandhu Chhotu Ram University of Science and Technology   2021 - 2025
Bachelor of Technology in Computer Science   *Current SGPA: 9.14*
CD Foundation of Education   2020
Class 12 (CBSE)   *95.4%*