Abhinav Prajapati

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PROFESSIONAL SUMMARY

I am a skilled Full Stack Web Developer and Embedded Programmer with expertise in web and IoT projects. Experienced in building systems from scratch, I specialize in front-end development (React, React Native), back-end frameworks (FastAPI, Flask), and embedded programming (Arduino, ESP32). Notable achievements include top rankings in the RoboRoarz Hackathon in Singapore, showcasing my problem-solving and technical leadership. Proﬁcient in Docker, Linux, PostgreSQL, and AWS, I am dedicated to creating practical, impactful solutions.

CORE COMPETENCIES / SKILLS

- **Front-End Development:** React, React Native, Tailwind CSS

- **Back-End Development:** FastAPI, Flask

- **Database Management:** PostgreSQL

- **Embedded Systems:** C/C++ for Arduino, ESP32

- **Tools and Platforms:** Docker, Linux, AWS (EC2, S3)

- **Additional Skills:** Problem-solving, Team Leadership

ACHIEVEMENTS

- 1st Position – House of Coders Hackathon, SRM IST Chennai

- 1st Runner Up (2nd Position) – Bajaj Finserv Datathon, SRM IST Chennai

- 2nd, 4th, and 5th Positions – RoboRoarz Hackathon, SUTD Singapore

- All India Rank 11 – DD Robocon 2023

- 2nd Runner Up – SRM SDG Hackathon, SRM KTR Campus, Chennai

EXPERIENCE

- Embedded Programmer (Robotics), SRM Team Robocon, Chennai, India [Dec 2022 - Mar 2024] - Led the design and development of robotic projects using Raspberry Pi and Arduino Uno for DD Robocon. Collaborated with a multidisciplinary team to prototype and test robotic solutions. - Implemented drive systems and control algorithms, integrating mechanical components to enhance robot functionality.

PROJECTS

- HYDRATEME – Smart Hydration Solution (Current Project) Combines IoT sensors and a mobile app to track and personalize water intake based on health data, activity, and weather conditions. **Technologies Used:** React Native, FastAPI, PostgreSQL, ESP32

- Home Automation System Built a home automation system using Home Assistant and ESP32 modules for remote control of lights, appliances, and door locks with RFID tags. **Technologies Used:** Home Assistant, ESP32, RFID sensors

LEADERSHIP VOLUNTEER EXPERIENCE

- Technical Team Leader Experienced in task delegation and team coordination, ensuring effective collaboration in technical projects. Led multidisciplinary teams from ideation to testing phases.