Ratanabh Sharma

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in Ratanabh Sharma | ⬛ Ratanabh Sharma | 📍 Patiala,Pb

Education Background

- Chitkara University institure of Engg. & Tech.(Pb)
  B.E ELECTRONICS AND COMMUNICATION
  2020-PRESENT (Currently In 8th sem)

- PLAY WAYS Sr. Sec. School, Patiala(Pb) (PSEB)
  Senior Secondary (XII) NON-MED.
  Completed in 2020

Soft Skill

- Observation
- Decision making
- Communication
- Multi-tasking

Hardware Skills

- Arduino Uno
- Esp 32/8266
- STM 32 DISCOVERY BOARD

Software Skills

- C/C++
- PYTHON
- JAVA (BASICS)
- HTML, CSS, JAVASCRIPT
- React Js & bootstrap
- Canva, Photoshop
- Ms office
- Video Editing
- Android Studio

Certifications

- Problem Solving Using Python Programming (Certified by Coding Ninja)
- Cisco Network Essentials, Introduction to IoT (Certified by Cisco Networking Academy)
- AWS Introduction IOT (Certified by Great Learning)
- Introduction to the Internet of Things and Embedded Systems(Coursera)
- The Arduino Platform and C Programming(Coursera)

Experience and Internship

Stupeer | Front-End Developer Intern
September 2023 - December 2023

Key Learning:
- Adaptability in the fast-paced startup environment, mastering new technologies swiftly.
- Versatility across front-end tasks: coding, design, and optimization in small-team settings.
- Collaboration skills refined through close teamwork in a diverse, supportive environment.

Key Responsibilities:
- Managed full-cycle development, from ideation to implementation and optimization.
- Efficiently multitasked coding, testing, and debugging to meet tight deadlines.
- Took initiative in problem-solving, leveraging limited resources effectively.

About Me

As a well-organized and enthusiastic student specializing in software development, I thrive on crafting innovative solutions by merging my skills in both hardware and software domains. Eager to contribute to the field, I bring a motivated attitude and various powerful software skills to drive success in the rapidly evolving technology industry.

Projects

SOIL MOISTURE MONITORING link
- Developed a smart houseplant watering and monitoring system.
- Utilized IoT technology for system functionality.
- Analyzed environmental factors for optimal water consumption.
- Aimed to maintain a green environment.
- Employed sensors to gather data on:
  - Weather conditions
  - Soil moisture levels
- Sent timely warnings/alerts to user's Android phone based on collected data.

AI Assistance link
- Developed a smart device using a microcontroller and Python.
- Integrated NLP and machine learning for personalized voice assistance.
- Connected to cloud for data access and sensor integration.
- Created a user-friendly interface

Temperature monitoring system link
- This project uses a DHT11 sensor to monitor temperature and display it on an OLED screen.
- A fan and LED indicator are activated if the temperature exceeds a limit. The DHT11 is a low-cost digital temperature and humidity sensor.

Personal Portfolio *Link*
- Developed a personal portfolio website using Next.js and TypeScript.
- Implemented server-side rendering for enhanced performance.
- Utilized next/font for optimized loading of Inter custom Google Font.
- Managed development with npm for a streamlined workflow.
- Ensured a responsive design for compatibility across devices.
- Structured content with HTML, styled with CSS, and added interactivity with JavaScript.

Achievements

- Achieved 3rd position in OCTAHACK 3.0 IDEATION 2020.
- Executive of Promotion team in CodeChef CUIET society (2021-2022).
- Executive of organizing team in IEEE society (2021-2022).
- Organized events in E-Buzz club, including:
  1. April Fool's Day (2022)
  2. Hindi Divas (2022)
  3. Numerous other events (2020-2023)
- Led the Techack-3.0 Hackathon as a team lead (January 2023).
- Served as Media Head for the college cultural club, E-BUZZ (2021-2023)