

SAKSHAM TALWAR

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SUMMARY:

Tech enthusiast with hands-on experience in software and web development currently pursuing a Bachelor of Computer Applications, seeking opportunities to leverage and expand my expertise. Strong communicator with a collaborative spirit, eager to contribute effectively to innovative projects.

EDUCATION:

- Graduation in Bachelor of Computer Applications (Maharishi Dayanand University, Rohtak) **2022-2025**
- CBSE Class XII **2022**
- CBSE Class X **2020**

LANGUAGES:

- Fluent in English, Hindi, and Punjabi

TECHNICAL SKILLS:

- **Programming Languages:** Java, C, C++, Python, JavaScript, HTML5, CSS3
- **Concepts:** Object-Oriented Programming (OOP), Data Structures & Algorithms, Exception Handling, Software Development Life Cycle (SDLC)
- **Other Technologies:** IoT Development (ESP32, sensors), Power BI (data visualization), Microsoft Office Suite (Word, Excel, PowerPoint)
- **Databases:** SQL, MySQL, Database Design
- **Tools & Platforms:** Arduino IDE, Visual Studio Code, Dev-C++, Eclipse (basic Java IDE), Git & GitHub (version control basics)
- **Operating Systems:** Windows, Linux (basic commands)

PROFESSIONAL EXPERIENCE & PROJECTS:

- **IoT Soil Moisture Sensor Project:** Designed and developed an Arduino-based system for monitoring soil moisture and automatic plant watering, resulting in a 20% reduction in water usage for plants. Utilized sensors and microcontrollers to measure soil moisture levels and automate the watering process, ensuring optimal soil conditions.
- **Remote-Controlled Flying Plane Model:** Engineered a functional model plane, applying principles of aerodynamics and mechanical design, leading to successful test flights covering distances up to 500 meters. Integrated lightweight materials and precise engineering techniques to optimize flight performance.
- **Door Unlock via Blynk App:** Developed a door lock system using ESP32, Blynk app, and RFID, enabling remote unlocking from a smartphone and manual access through RFID or a physical switch for enhanced flexibility and security.

LEADERSHIP & VOLUNTEERING:

- **Photography and Logistics Coordinator:** Led photography and logistics for college festivals, coordinating a team of 10 members to cover events attended by over 300 students, ensuring smooth operations and high-quality event coverage.
- **Photography Club Leader:** Organized workshops and exhibitions as Photography Club Leader, increasing member engagement by 20%.
- **Literary Club Volunteer Leader:** Led literary events and debates as Literary Club Volunteer Leader, enhancing campus literary culture.
- **Tech Event Organizer:** Organized a BGMI gaming tournament with a team of 5, engaging over 200 participants and enhancing event coordination skills.

EXTRACURRICULAR & CERTIFICATIONS:

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| ➤ J.P. Morgan Software Engineering Virtual Experience on Forage - | July 2024 |
| ➤ Walmart USA Advanced Software Engineering Virtual Experience Program on Forage - | July 2024 |
| ➤ IoT Soil Moisture Sensor Project (<i>Hackathon Winner, SGTU University, Gurugram</i>) - | February 2024 |
| ➤ Certificate in Excel Proficiency & Analytics (CEPA) – Anudip Foundation & DPGITM | September 2024 |
| ➤ Fundamentals of Java Core & Web Programming – Anudip Foundation | (In Progress) |

HOBBIES:

Engaging in Technology Projects, Web Development, Photography, Moto rides, and singing.