



Harshit Mishra

Bachelor of Technology
in Information Technology (IT)
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[GitHub](#)

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EDUCATION

Degree	Institute	Board / University	CGPA/Percentage	Year
B.Tech IT	Indian Institute of Information Technology Una	IIT Una	8.35 (till 4 th sem)	2022-2026
Senior Secondary	Tiny Tots Public School	CBSE	85.2%	2022
Matriculation	Stella Maris Convent School	CBSE	95.2%	2020

PATENTS

- RFID-Based Weapon Detection and Friend-or-Foe Identification System** Jan 2025 – Apr 2025
Prototype Development
 - Developed RFID-enabled system to detect weapon-carrying individuals and classify them as friendly or hostile, enhancing situational awareness in military zones.
- Face Mask with Integrated Sensors for Bruxism Detection** May 2025 – July 2025
Provisional Patent
 - Filed patent for wearable sleep mask detecting **sleep bruxism**, a prevalent sleep disorder affecting 20% of adults, following rigorous prototype testing and refinement.

EXPERIENCE

- Maker Bhavan Foundation (IITGN)** May 2025 - July 2025
Research and Development Intern
 - Selected as one of **60 students across India** for a prestigious national-level innovation program.
 - Developed a **smart wearable mask** in a **team of 3** to detect and monitor **Sleep Bruxism** using biosensors.
 - Honored with the **Special Jury Award** of 50000 for outstanding innovation and technical execution.

PROJECTS

- Parking Lot Aggregator (FASTag based)** [\(Live Link\)](#) [\(Demonstration Video\)](#) [GitHub](#)
Optimizing Urban Parking Spaces for Efficient City Mobility Using RFID(FASTag) Technology
 - Built a comprehensive parking lot aggregator platform with **2 different client and business sites** separately using the **MERN stack**, integrating **IoT (RFID)** for automated entry and exit.
 - Designed architecture with **minimal hardware** cost (Rs 20,000), using **ESP32** for **RFID (FASTag)**-based entry and exit.
 - Implemented **real-time updates** with **Redis** and **Socket.io**, enhancing the user experience with a dynamic dashboard and reduced API response time by **80%**.
 - Implemented 3 booking types—**hour-wise**, **date-wise**, and **walk-in**—with real-time updates via **NodeMailer**.
 - Integrated **Stripe** as the payment gateway and **Mapbox API** for interactive maps of parking lots.
 - Included more than **9 edge-case handling** and deployed the application on **AWS** with **Nginx** for optimized server management.
- OSint SaaS Platform** [\(Live Link\)](#) [\(Demonstration Video\)](#) [GitHub](#)
Efficient Open-Source Intelligence Gathering with 4 Integrated APIs
 - Programmed a comprehensive **OSint SaaS platform** using **MERN**, enabling efficient open-source intelligence gathering.
 - Integrated **4 APIs** for OSINT services—including **phone/email validation**, **social media retrieval**, and **reverse image search** with secure **Stripe** payment processing for a **pay-per-search** model and user balance tracking.
 - Deployed the application on **AWS** with **Nginx** for optimized server management.
- Automatic PC Cooling Pad Adapter** [GitHub](#)
Optimized cooling solution for laptops based on CPU usage using Python and Arduino
 - Developed an automatic cooling pad adapter that activates based on CPU usage, using **Python driver** and **Arduino Uno** for efficient power management.
 - Utilized 2 libraries **Psutil** and **Serial** in the **Driver** to monitor and transmit CPU usage data to the cooling pad system.
 - Designed an adapter that transforms regular cooling pads into smart ones, enhancing efficiency by up to **62%**.

TECHNICAL SKILLS

- Programming Languages:** C, C++, JavaScript
- Web Development Stack:** HTML, CSS, JavaScript, MongoDB, Node.js, Redis
- Tools:** Git & GitHub, SQL, AWS, Nginx

KEY COURSES TAKEN

- Computer Science & Mathematics:** Introduction to C, Computer Networks, Object-Oriented Programming in C++, Data Structures and Algorithms, Operating Systems, Database Management Systems