

# Harsh Agrawal

✉ agrawalharsh0522@gmail.com

☎ 8160827979

in harsh-agrawal-92ba4021b

🐙 HarshAgrawal1

## WORK EXPERIENCE

---

### Space Applications Centre, ISRO

Software developer Intern

Oct 2023 - Dec 2023

- Designed and implemented backend services using Node.js and Express.js, optimizing data processing workflows for satellite telemetry analysis.
- Worked closely with scientists and engineers to build robust software solutions that supported real-time data visualization and analysis.

### STOCKZO

Software Engineer Intern

Jul 2022 - Sept 2022

- Improved Django-based web page loading speed by 25% for enhanced user experience.
- Optimized Django-based frontend for 25% boost in site loading speed.
- Developed and maintained high-performance, scalable, and reliable Django-based applications.

## EDUCATION

---

### Vellore Institute of Technology

Bachelor of Technology (Computer Science and Engineering) - 8.44

July 2021 - June 2025

- Data Structures and Algorithms (C++), Prob & Stat in CS (Python), Intro to CS II (C++), Artificial Intelligence, Machine Learning, Networking, Databases, RPA (Robotic Process Automation), UiPath

## PROJECTS

---

### Cloud-Based Collaborative Whiteboard [↗](#)

- Developed a **real-time collaborative whiteboard** using **WebSockets (Socket.io)** for seamless multi-user interaction.
- Implemented **secure authentication** with **JWT, Cookie-Parser, and Bcrypt**, ensuring data protection.
- Integrated **MongoDB** for efficient user data management and session persistence.

### EcoTrack - Waste Management Platform [↗](#)

- Boosted user engagement by 35% with personalized dashboards.
- Enhanced user experience with SMTP-based email notifications, OTP security, and a recommendation engine.
- Demonstrated expertise in Django, SQLite, SMTP, and API by winning the ClimaTech Hackathon.

### Project Dark [↗](#)

- Designed a Chrome Browser extension to detect over 500 Dark Patterns in real-time using JavaScript.
- Integrated CogAgent VLM Model for 92% accurate detection.
- Stored over 10,000 URLs and Dark Pattern descriptions in MongoDB for analysis.
- Utilized cutting-edge technologies, including HTML, CSS, JavaScript, VLM, MongoDB, and a web crawler.

## SKILLS

---

- Languages: Python, PHP, C++, JavaScript, SQL, Bash, JAVA
- Frameworks: NodeJS ,Django, ReactJS, Angular Scikit, TensorFlow, Keras, UiPath
- Databases: MongoDB, Oracle, SQL Server, PostgreSQL, MySQL

## AWARD

---

**Winner of the ClimaTech Hackathon and Valeo Machine Learning Hackathon**

**Top 15 finisher in the IISF'23 Space hackathon by ISRO**