



# Shubham Thawait

Master of Technology  
in Computer Science  
Indian Institute Of Technology, Ropar

+91-8602778854  
sthawait910@gmail.com  
github.com/28shubham  
linkedin.com/in/shubham-thawait-b44862184

## EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
Master of Technology	Indian Institute of Technology, Ropar	7.39 (Till 2nd Sem)	2023-2025
Bachelor of Technology	Government Engineering College Bilaspur	82%	2018-2022
Senior Secondary	Chhattisgarh Board Of Secondary Education	86.6%	2018
Secondary	Central Board of Secondary Education	10 CGPA	2016

## PROJECTS

- Construction Plan Verification (M.Tech Thesis Project)** *July 2024 - ongoing*  
*Dr. Balwinder Sodhi* **GitHub**
  - Developing an application for automated compliance checks of building plans against zoning laws and building codes, providing instant feedback on regulatory issues.
  - Includes an optional expert review feature for complex cases to ensure accurate and compliant building plans.
- College Management WebApp** *January 2022 - May 2022*  
*Asst. Prof. Savita Sahu* **GitHub**
  - Developed a full-stack college management website using React.js, Node.js, Express, MongoDB, HTML, CSS, and JavaScript.
  - Implemented role-based authentication and access control, allowing teachers and students to update profiles, and teachers to manage attendance, assignments, and notices.
- Social Media**  
*Self Project* **GitHub**
  - Created a MERN stack social media web application that supports multiple user profiles and enables seamless interactions through posts, likes, comments, and follows.
  - Implemented secure user authentication with JWT, including password encryption and session management. Enabled real-time communication via WebSockets for messaging, notifications, and live feed updates.
- Washing-Machine-Free-Detector Mobile App** *March 2024 - May 2024*  
*Dr. Jagpreet Singh* **GitHub**
  - Developed a washing machine monitoring system using an MPU6050 sensor to detect oscillations, track activity, trigger notifications when activity exceeded a threshold, and provide information about the availability of the washing machine.
  - Built the frontend with React Native and deployed the application on Render for cloud hosting.
- Crop-Type Classification and Vegetation Monitoring Using Supervised Learning Model** *March 2024 - May 2024*  
*Dr. Neeraj Goel and Dr Mukesh Saini* **GitHub**
  - Utilized the TimeSen2Crop dataset for crop type classification with Temporal CNN, incorporating pixel masks for shadow, cloud, and snow for accurate results.
  - Analyzed crop growth using NDVI(Normalized Difference Vegetation Index) from September 2017 to August 2018, providing insights into crop conditions and performance.

## TECHNICAL SKILLS

- Programming Languages:** C, C++, Python
- Skills:** Web Development, HTML, CSS, JavaScript, PHP, React.js, Node.js & Next.js
- Tools & Technologies:** Git, GitHub, MySQL, Rest API's, Express, Docker, Amazon AWS, MongoDB
- Operating System:** Linux, Windows

## KEY COURSES TAKEN

- CSE :** Data Structures & Algorithm, Computer Systems, Blockchain, Internet of Things, Security Aware Architectures
- Maths & Others:** Linear Algebra, Probability

## POSITIONS OF RESPONSIBILITY

- Teaching Assistant:** CS201 Data Structures, IIT Ropar. *July 2024 - Ongoing*
- Vice President:** Hostel Vice President, GEC BILASPUR. *July 2021 - May 2022*

## MISCELLANEOUS

- GATE Examination:** Cleared with percentile 97.73% *2023*
- Active on Programming Platform:** GeeksforGeeks(Link), LeetCode(Link)
- Interests:** Chess, Cricket, Travelling