Ashwin Jaiswal

# Computer Science and Engineering — IIT Bhilai

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# Education

**Indian Institute of Technology, Bhilai** *2022 - Present*

B.Tech in Computer Science and Engineering *Expected May 2026*

**Khelgaon Public School, Prayagraj** *2021 - 2022*

Class XII - CBSE

**Bishop Johnson School and College** *2019 - 2020*

Class X – ICSE

# Experience

**Research Intern (Chanakya), TiH, IIT Bombay *2024 - Present***

* Project Title: Development of laser bending strategy with IoT based sensors and control
* Built and maintained an application that interacts with an ML model deployed on the cloud, integrating with the Laser Bending Machine.
* Working on containerization and deployment of the ML model using cloud-based infrastructure.
* Implemented CI/CD pipelines for automating deployment and updates to the application.
* Developed monitoring and logging mechanisms to ensure real-time interaction between cloud services and IoT devices.

# Competitions

Inter IIT Tech Meet, 2024

* Problem statement: Most efficient way to pack 3D packages (Priority and Economy) into 3D bins.
* Worked on Linear Programming model, Gurobi optimization, Simulated annealing and congestion control algorithm.
* The solution achieves results surpassing some industry level algorithms being used on some databases and achieves a packing efficiency of 76%.
* The time taken to run the algorithm for 6 industry sized bins is only 7 minutes.

# Projects

## E-card Sharing Platform

* Developed an online platform for sharing visiting cards using unique QR codes, featuring advanced contact management with search and sorting.
* Dual QR functionalities prevent excessive requests, supporting up to **1,00,000 users**.
* **Technologies:** HTML, CSS, JavaScript, ReactJS, NodeJS, MongoDB.

## Hotel Manager

* Created a completely only web based platform that helps hotels manage their bookings, customers, rooms and expenses.
* Prevents clash between bookings of a room and give most efficient way to handle the clash.
* Reduces the work of hotel managers by 90%.
* Currently being used by 7 hotels in Prayagraj.
* **Technologies:** HTML, CSS, JavaScript, ReactJS, NodeJS, MongoDB
* Website: <https://hotel-management-2-03dr.onrender.com/register>

## Crowdfunding Platform

* Built a blockchain-powered platform enabling transparent, intermediary-free fundraising with real-time wallet connection.
* Provides live campaign and transaction details for over 10,000 users.
* **Technologies:** Typescript, React, Solidity.
* Website: [astounding-begonia-e2eea8.netlify.app](https://astounding-begonia-e2eea8.netlify.app/)

## Real-Time Chat Application

* Developed a real-time chat platform for one-on-one and group chats with user authentication and search by name, email, or phone.
* Real-time updates powered by Socket.IO ensure a seamless experience across channels.
* **Technologies:** Next.js, Socket.IO, React, Node.js, MongoDB.

# Skills

**Languages:** C/C++, Java, Python, JavaScript, Typescript **Libraries/Frameworks:** React, NextJS, NodeJS, ExpressJS, Solidity **Databases:** MongoDB, MySQL

**Tools:** Git, Docker, Thirdweb

**Coursework:** DSA, DBMS, OS, Blockchain

# Positions of Responsibility

## IUGC Representative

*Student’s Senate, IIT Bhilai* (04/2024 - Present)

## Social Executive

*National Service Scheme (NSS), IIT Bhilai* (04/2023 - 04/2024)

## Media Team Member

*EBSB, IIT Bhilai* (04/2023 - 04/2024)

## Volunteer

*Student Mentorship Programme, IIT Bhilai* (04/2023 - 04/2024)