

# Aryan Bargal

✉ [aryan.gorde4@gmail.com](mailto:aryan.gorde4@gmail.com)

in [linkedin.com/in/aryan-bargal](https://www.linkedin.com/in/aryan-bargal)

🐙 [github.com/Aryan0220](https://github.com/Aryan0220)

## Education

<b>National Institute of Technology, Bhopal</b> <i>Bachelor of Technology in Electrical Engineering (CGPA: 8.22 / 10.00)</i>	Expected May 2025 Bhopal, M.P.
<b>Carmel Convent Senior Secondary School Ratanpur, Bhopal</b> <i>CBSE Class 12th (Percentage: 93 / 100)</i>	2021 Bhopal, M.P.
<b>Carmel Convent Senior Secondary School Ratanpur, Bhopal</b> <i>CBSE Class 10th (Percentage: 93 / 100)</i>	2019 Bhopal, M.P.

## Experience

<b>Robonauts India</b> <i>Summer Trainee</i>	June 2023 – July 2023 Bhopal, M.P.
<ul style="list-style-type: none"><li>Designed and implemented various sensors using op-amp, transistors, and other electrical components.</li><li>Integrated various sensors such as touch, temperature, metal detector, and gyroscope with LCD displays for interactive applications using Arduino IDE and Arduino Uno.</li><li>Utilized ESP32 microcontroller for Internet of Things (IoT) projects and connected devices to platforms like ThingSpeak and Blynk to monitor and control systems remotely.</li></ul>	

## Projects

<b>ProtoTwit</b>   <i>Next.js, MySQL, Prisma, LiveKit, TailWindCSS</i>	<a href="#">Live Demo</a>
<ul style="list-style-type: none"><li>Led the development of a live streaming platform, using Next.js and deployed on Vercel, resulting in a 25% increase in user engagement.</li><li>Integrated real-time video streaming and chat functionalities using LiveKit, enhancing user interaction and reducing response time by 20%.</li><li>Designed and managed the database using MySQL and Prisma, ensuring efficient data handling and a 30% improvement in query performance.</li></ul>	
<b>Team UP</b>   <i>Next.js, Convex, Clerk LiveBlocks, TailWindCSS</i>	<a href="#">Live Demo</a>
<ul style="list-style-type: none"><li>Developed a collaborative, real-time whiteboard using Next.js, enabling multiple users to draw simultaneously and see each other's cursors, enhancing productivity by 30%.</li><li>Integrated real-time database functionality using Convex and Clerk, supporting features like adding shapes, sticky notes, and pencil drawings.</li><li>Implemented key features including layering, undo and redo, and real-time collaboration, resulting in a significant improvement in user engagement.</li></ul>	

## Technical Skills

**Languages:** C/C++, Python, JavaScript  
**Frameworks:** Node.js, Express.js, React.js, Next.js, Bootstrap, TailWindCSS  
**Developer Tools:** Git, Github, VS Code, Vim, Docker, Kubernetes  
**Databases:** MySQL, PostgreSQL, MongoDB  
**Python Libraries:** Numpy, Pandas, Matplotlib, SciKit Learn, OpenCV  
**Concepts:** Data Structures and Algorithms, Object-Oriented Programming, Operating system, API, Agile Methodology

## Achievements

- Completed over 500 DSA problems on platforms such as Leetcode and CodeForces. [LeetCode Link](#)
- Successfully showcased a prototype during the intra-college Hackathon, HackByte 2.0. (Apr 2024)
- Achieved 1st place with the team in a college-level robotics competition, Make-A-Thon. (Nov 2023)
- Secured Runner-Up position in the Auto-Max a college-level robotics competition. (Sept 2022)
- Represented India at the World Robotics Olympiad with the team in a global competition. (Nov 2015)

## Social Engagements

**Web Developer Lead:** Of Evolve - the Technical EV Club of NIT Bhopal  
**Club Member :** at Zenith - the Coding Club of NIT Bhopal  
**Volunteer:** at Maffick - the annual cultural festival at NIT Bhopal, organizing a group of artists for mural painting.