

Aryan Bargal

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Education

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

Experience

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

Projects

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

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.