

Harsha Vardhan

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IIT Bhubaneswar

Electronics and Communication Engineering
4th Year Undergraduate



EDUCATION

Year	Degree/Examination	Institute	%/CGPA
2021-Present	4-Year Bachelor of Technology (ECE)	Indian Institute of Technology Bhubaneswar	7.84/10
2021	Grade XII (ISC)	Loyola School, Bhubaneswar	95%
2019	Grade X (ICSE)	Loyola School, Bhubaneswar	96%

PROJECTS

EchoChat [Project Link](#)

(September 2023 - October 2023)

- Planned and built a chatting platform for seamless online interactions, **increasing user engagement by 20%**.
- Integrated **real-time notifications**, significantly reducing response times between platform users by **30%**.
- Developed **1-to-1** and **group chat** functionality, video meetings, and an AI chatbot, boosting user retention by **15%**.
- Tech-Stack (7)**: Next.js, TypeScript, Tailwind, Zapier, Clerk Auth, ZegoCloud, GetStream and Figma.

Smart Naka [Project Link](#)

(December 2022 - January 2023)

- Built a platform that cross-references vehicles with a **stolen database**, improving **police report efficiency by 25%**.
- Integrated **Advanced Search** features and **PDF export** functionality, effectively cutting overall search times by **40%**.
- Planned on creating a **real-time camera scan** for automated vehicle number detection.
- Tech-Stack (3)**: React Native, TypeScript and Figma.

Hostel Management Portal [Project Link](#)

(September 2022 - October 2022)

- Created a hostel complaint platform with upvoting, cutting resolution times by **50%** and boosting engagement by **30%**.
- Implemented a robust **admin system** with "Accept", "Reject", and "Escalate" options, cutting workload by **40%**.
- Developed a platform to streamline complaints for **2500+ hostel residents**, proposed for campus-wide adoption.
- Tech-Stack (4)**: HTML5, Bootstrap, PHP and MySQL.

EXPERIENCE

Imbesideyou Inc. (Tokyo, Japan)

(May 2024 - December 2024)

Software Developer Intern

- Migrated **170,000+ lines of code** to Ionic Capacitor Android, improving cross-platform app performance by **20%**.
- Structured complex **database relationships** using **PostgreSQL (Prisma)**, implementing advanced **Full-Text Search** with sub-200ms query latency, significantly improving **data retrieval speeds by 25%**.
- Automated email services** with **Nodemailer** and **AWS SES**, reducing manual workload by **40%**.
- Boosted user interactivity with audio analyzers, video GPU, and **AI avatars**, enhancing **user experience by 25%**.
- Implemented **CI/CD** for Docker on AWS ECS, effectively cutting deployment times by **30%** and optimizing API calls and authentication with **AWS Cognito and Amplify**.

IEEE Bombay Section

(September 2023 - October 2023)

Full-Stack Developer Intern

- Crafted the UI from scratch** for their event management platform, **improving workflow by 30%**.
- Initiated detailed [System Design](#) and [userflow](#), cutting task completion times by **25%**.

SCHOLASTIC ACHIEVEMENTS

- 3rd place** in CodeRelay Hackathon for developing a web-based **Complaint Portal**.
- Top 25 finalists** out of **1000+ teams** in Ethos Hackathon, IIT Guwahati.
- Silver** (Mid-Prep) and **bronze** (Low-Prep) medals at **Inter IIT Tech Meet 11.0**, IIT Kanpur.
- All India Rank **3,348** among **1.4+ million** in JEE Advanced 2021.

KEY SKILLS

Programming Languages: C, C++, JavaScript, TypeScript, Bash

Frameworks: Next.js, React.js, React Native, Ionic Capacitor, Node.js

Tools/Platforms: Git, GitHub, Postman, Prisma ORM, AWS, Docker, Linux, Figma (UI/UX)

Databases: PostgreSQL, MySQL

Soft Skills: Leadership, Communication, Adaptability, Teamwork, Positive Attitude

POSITIONS OF RESPONSIBILITY

Neuromancers (Programming Society), IIT Bhubaneswar

(June 2023 - June 2024)

Software Development Club Head

- Spearheaded **WinterCode Dash**, 4 weekend hackathons fostering innovation among institute students.