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%**.
- Created a **real-time camera scan** for automated vehicle number detection, projected to save **20%** of law enforcement time.
- **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%**.
- The platform *HMP* serves **2500+ hostel residents**, creating a more transparent and efficient complaint process.
- **Tech-Stack (4):** HTML5, Bootstrap, PHP and MySQL.

EXPERIENCE

Imbesideyou Inc. (Tokyo, Japan)   *(May 2024 - Present)*
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 a robust internal tool used by 500+ employees, **improving workflow by 30%**.
- Initiated detailed *System Design* and **userflow**, cutting task completion times by **25%**.

SCHOLASTIC ACHIEVEMENTS

- Secured **3rd position** in the CodeRelay Hackathon where my team developed a web-based **Complaint Portal**.
- Our team made the **top 25 finalists** among **1000+** participants across India in the Ethos Hackathon by IIT Guwahati.
- **Silver medal (Mid-Prep)** and **bronze medal (Low-Prep)** in **Inter IIT Tech Meet 11.0**, IIT Kanpur.
- Secured All India Rank of **3,348** among **1.4+ million** candidates in Joint Entrance Examination (JEE Advance) 2021.

KEY SKILLS

Programming Languages: C, C++, JavaScript, TypeScript, Bash.
Tools: Git and Github, Postman, Prisma ORM, GCP, AWS, Docker, DevOps, Linux, Figma (UI/UX), MATLAB.
Framework: Next.js, React.js, React Native, Ionic Capacitor, Node.js.
Data Structures and Algorithms: *https://leetcode.com/hv789/, https://auth.geeksforgeeks.org/user/hv789*.
Soft Skills: *Strong leadership, Communication, Adaptability skills, Teamwork, and 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.*