

# Ritika Sinha

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## SKILLS

### Languages:

PHP, C++, Python, Java

### Tools/Platforms:

HTML, CSS, PostgreSQL, MongoDB, React.js, Nodejs, Wordpress, Bootstrap, Git, GitHub

### Soft Skills:

Problem-Solving, Team Player, Project Management, Adaptability

## TRAINING

### GeeksforGeeks (Edtech Company)

Data Structure and Algorithms

Jun' 24 – Jul' 24

- Utilised core DSA concepts to solve practical problems and focused on optimised algorithm design to improve efficiency.
- Developed a library management system that improved data management and boosted overall system performance.
- Applied key DSA techniques such as sort, search, graph, and dynamic programming to achieve measurable performance gains.

## PROJECTS

### Real-Time Language Translator | Python, Streamlit, Googletrans, SpeechRecognition, PyAudio, httpx

May' 25

- Developed a real-time voice-based translation app with speech-to-text, translation, and text-to-speech features to enable seamless multilingual communication.
- Integrated external tools to process voice input and deliver accurate multilingual output across multiple languages.
- Designed a responsive, intuitive interface to enhance overall user experience.

### ReadMatch | HTML, CSS, Javascript, MySQL, PHP

Oct' 24

- Implemented a secure authentication system with robust session management to ensure user data protection.
- Developed a personalised book recommendation quiz, enabled smooth browse and order flow by aligning user preferences with curated results, and boosted user engagement.
- Created a responsive, intuitive interface to ensure a seamless experience across all devices.

### BrainTeaser | Nodejs, PostgreSQL, HTML and CSS

Apr' 24

- Designed interactive brain games to classify users as left- or right-brained and encouraged repeat usage through game mechanics.
- Developed a RESTful API with Node.js to manage game logic and data flow, improved system performance and reduced server delays.
- Integrated PostgreSQL to store and analyse real-time user data, enabled consistent, accurate feedback based on user behaviour.

## CERTIFICATES

Front End Web Developer Certification | Infosys Springboard

May' 25

Building Web Application in PHP | Coursera

Nov' 24

Design & Implementation of Human-Computer Interfaces | NPTEL

Nov' 24

Object-Oriented C++: Inheritance and Encapsulation | Coursera

May' 24

## CO-CURRICULAR ACTIVITIES

- Participated in the Dr. Code Hackathon, contributed to a lead management system and demonstrated strong problem-solving and innovation in a collaborative setup. Mar'25
- Built an interactive NGO website for summer community service and collaborated with team members to align the interface with organisation needs. Jul' 23
- Volunteered with TechOcean to support the event setup and coordination of technology programmes, ensured smooth execution and strong participant involvement. May'23

## EDUCATION

### Lovely Professional University

Bachelor of Technology

Computer Science and Engineering; CGPA: 7.41

Phagwara, Punjab

Sep' 22– Present

### D.A.V Public School

Intermediate

PCM; Percentage: 85.4%

Patna, Bihar

May' 20 – May' 21

### D.A.V Public School

Matriculation

Percentage: 96.8%

Patna, Bihar

Mar' 18 – May' 19