

# Nitan Jana

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📍 Kolkata, West Bengal

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🔄 [github.com/NitanJana](https://github.com/NitanJana)

📧 [nitanjana.github.io/portfolio](https://nitanjana.github.io/portfolio)

## Objective:

Highly motivated and skilled Full Stack Engineer seeking to leverage proficiency in web development and programming to contribute effectively to innovative projects. Eager to apply academic knowledge and hands-on experience gained through personal projects to a dynamic team environment.

## Education:

- **Post Graduation in Computer Science**, 2024
  - CGPA: **7.4**
  - University of Calcutta, Kolkata.
- **Graduation in Computer Science**, 2021.
  - CGPA: **7.8**
  - University of Calcutta, Kolkata

## Skills:

- **Front-end:** Next.js, React.js, Redux-toolkit, React Router, TailwindCSS, HTML5, CSS3, JavaScript.
- **Back-end:** Node.js, Express.js, Appwrite.
- **Other:** MongoDB, Git, Github.
- **Hosting platforms:** Vercel, Heroku, Netlify, Github Pages.
- **Development tools:** VS Code, Postman, Webpack, Babel, Vite, ESLint, Prettier etc.
- **Soft skills:** Strong problem-solving abilities, attention to detail, excellent communication and collaboration skills.

## Personal Projects:

- **Blogging Web App (March '24)**  
Developed a full-stack blogging application featuring user authentication & management, rich text editing (TinyMCE), utilizing React.js, Appwrite, Redux-toolkit for efficiency, and deployed on Vercel.
- **Message Board Application (February '24)**  
Developed a dynamic message board web application using React.js and Node.js/Express.js, featuring a user-friendly interface, real-time updates, and a well-structured MVC(Model-View-Controller) backend for scalability.
- **Personal Portfolio Website (December '23)**  
Built a portfolio website showcasing my achievements and projects, featuring modern development practices, responsive design, animations, and optimized code for seamless UI/UX across devices.
- **Pokémon Memory Card Game (January '24)**  
Developed a visually engaging Pokémon memory card game web app using React.js for an interactive and user-friendly experience optimized responsively to promote cognitive skills in a fun way.

## College Projects:

- **Bengali Handwritten OCR (June '21 - August '21)**  
Built a high-accuracy (98%) CNN model in TensorFlow for recognizing handwritten Bangla characters and digits. Employed preprocessing techniques on a dataset consisting 166k+ images and a CNN architecture with various convolution layers and ReLU/SoftMax activations for robust performance.
- **Bengali Lemmatizer (Apr '23 - June '23)**  
Built a high-accuracy Bengali word lemmatizer (91.69%) combining rule-based, neural approaches (encoder-decoder with attention) and trie data structures for robust root word identification.

## Certifications:

MongoDB - [certificate](#) - issued on 2024-02-16

## Languages:

Fluent in English, Hindi and Bengali.