

Abhirup Bhattacharyya

Full Stack Developer

MERN | Node.js | MVC | Nest.js | REST API | SQL | EJS

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Greater Noida, U.P., 201301,
India

Recently graduated with an MCA postgraduate degree, with strong expertise in web application development, computer networks, and operating systems. Experienced in building robust, user-friendly web applications through hands-on project development. Passionate about leveraging technical knowledge to solve complex challenges in web development and game development. Previously contributed to an open-source community game project on GitHub.

Projects

Blogging Web App

September 2024 – Current

Technologies: Node.js, Express.js, EJS, Sequelize, Tailwind CSS, Docker

- Developed a dynamic blogging platform with a robust word processor for image embedding and formatting.
- Implemented responsive UI and advanced text editor, simulating a Word document experience.
- Currently working on migrating the backend to model controller view design using Nest.js and TypeScript to help project maintainability and readability.
- Implementing JWT, a search feature and a live feed to enhance security and user engagement.

Football Match Analysis Neural Network

April 2024 – June 2024

Technologies: Python, YOLO, OpenCV, Pandas

- Analyzed football matches using object detection (YOLO) and player movement via optical flow.
- Assigned players to teams using K-means clustering based on jersey colors.
- Calculated ball control time by tracking the closest bounding boxes, delivering actionable insights on team performance.
- Used interpolation functions from the pandas library due to facing issues with missing bounding box positions of the ball in several frames.

Education

Master's Degree

Master of Computer Applications

8.08/10

November 2022 – July 2024

At Galgotia's College of Engineering and Technology

Bachelor's Degree

Bachelor of Computer Applications

65.47%

August 2019 – June 2022

At Greater Noida Institute of Management

Core Skills

- JavaScript
- TypeScript
- Node.js
- Nest.js
- Express.js
- Embedded JavaScript
- JWT
- Docker
- Linux
- React
- Next.js
- Git
- C++
- C++11
- SQL
- ORM
- MongoDB
- Object Oriented Programming
- Functional Programming
- Data Structures
- Computer Networks

GitHub Contributions

2D Community Game

Implemented Procedural map generation using cellular automata theory and tile texture placement logic.

Certification

Fullstack Web Development

Udemy

NodeJS App Development

Udemy

Languages

English (Proficient)

Hindi (Native)

Bengali (Native)