

HRIDAY KUMAR

Aspiring Software Engineer | Competitive Programmer | AI Enthusiast

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🎯 CAREER OBJECTIVE

Passionate computer science student with hands-on experience in competitive programming, deep learning, machine learning, and full-stack web development. Solved more than 1,070 problems in [Codeforces](#) and 120+ in [LeetCode](#). Proficient in Laravel, MERN stack, SQL, and AI-driven application development.

📁 EXPERIENCE

Project Experience or Hackathon Projects

02/2024 – 03/2024

- Collaborated with a team of developers to build a waste management system during a 36-hour national hackathon event.
- Developed the backend using Laravel and designed a scalable REST API with secure access using JWT authentication.
- Performed API testing and verification using Postman, ensuring smooth integration across modules.
- Worked on integrating a deep learning model to classify types of waste for smart categorization.

🎓 EDUCATION

Pabna University of Science and Technology, BSc in Computer Science

CGPA: 3.47/4.00

Relevant Courses: Algorithms, Data structure, Machine Learning, Networking, Operating Systems

🏆 KEY ACHIEVEMENTS

- 🌟 **Code Samurai 2024** – Developed waste management system with Laravel, React and AI.
- 🏆 **Intra-University Champion 2023** – 1st place in interdepartmental programming contest.

🔧 SKILLS

[C++](#) [JAVA](#) [JAVASCRIPT](#) [PHP](#) [PYTHON](#) [REACT](#) [SQL](#) [NODE](#) [VERSION CONTROL](#)
[DEEP LEARNING](#) [MACHINE LEARNING](#)

🔧 PROJECTS

Multi-Category E-commerce Platform | [Laravel\(Backend\)](#) | [React\(Frontend\)](#)

- Built a multi-vendor e-commerce site with product CRUD, likes, comments, tags, cart, and checkout.
- Implemented JWT-based role authentication with separate admin/vendor dashboards and a responsive React frontend.

Easy Online MCQ Exam MERNGenAI | [Backend](#) | [Frontend](#) | [AI](#)

- Created and implemented a MERN stack-based AI-integrated multiple-choice question (MCQ) test system that uses GPT-based APIs to produce questions dynamically.
- Timed tests, user authentication with JWT, and comprehensive result analytics with filtering and history were executed.

Programming Blog Laravel | [Backend](#) | [Frontend](#)

- Using Laravel, I developed a feature-rich blog system with features for creating, editing, commenting, like, and categorizing posts based on tags.
- Implemented user and admin roles with separate access controls and dashboard functionalities
- Blade templating engine and RESTful APIs were used for fluid user interaction and dynamic content rendering.

AirWritingRecognition DL | [Deep Learning](#)

- Created a real-time air writing recognition system that uses MediaPipe and CNN to identify and categorize characters or numbers that are drawn in the air.
- Analyzed gesture trajectories, recorded hand movements using a camera, and used a specially trained deep learning model to predict written letters.
- In a Python-based GUI, integrated visualization for anticipated results and guaranteed seamless interaction.

Java Socket Chess Game | [Java](#)

- Created a two-player real-time chess game with Java and socket programming to enable network-based play.
- Used unique socket-based protocols to provide player communication, move validation, and game logic.

🗨️ REFERENCES

Pintu Kumar Sutradhar

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