SHAMIK BARDHAN

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OBJECTIVE

Aspiring developer with a strong foundation in programming, web development, and emerging technologies. Passionate about building innovative solutions and continuously learning new skills.

EDUCATION

B.Tech in Computer Science Engineering, Narula Institute of Technology	Expected 2026
12th grade, The Aryans School	2021 - 2022
10th grade, The Aryans School	2019 - 2020

SKILLS

Technical Skills	Python, C, C++, Java, HTML, CSS, JavaScript, Django, Flask, Firebase, PHP
Soft Skills	Problem-solving, Critical thinking, Teamwork, Communication
Tools & Platforms	Git, Firebase, OpenCV, Mediapipe
Databases	MySQL, Firebase Firestore

PROJECTS

AR Writing Using Hand Gestures. Developed an AR-based writing system using Flask, JavaScript, and Firebase to allow users to draw in the air using hand gestures. Implemented real-time gesture recognition for an intuitive writing experience. (Try it here)

On-Ground Disaster Management Car (ODMC). Designed and implemented an Arduino-based disaster response vehicle. Integrated real-time sensor data processing for efficient disaster relief and autonomous navigation in hazardous environments.

RESEARCH & PUBLICATIONS

- **Enhancing Phylogenetic Analysis: A New Genome Sequence Comparison Approach Using Bray-Curtis Dissimilarity Metric.** Currently under review for publication in IEEE; focuses on genome sequence comparison using Bray-Curtis dissimilarity. Skills: Genome Analysis, Data Metrics, Research Methodology

ACHIEVEMENTS

- **Best Paper Award – IEEE DABCON International Conference:** Won the Best Paper Award in the Bioinformatics section for the research paper "Enhancing Phylogenetic Analysis: A New Genome Sequence Comparison Approach Using Bray-Curtis Dissimilarity Metric."

- **1st Prize in Made in JIS CELEB:** Secured **1st place** in the startup idea competition with the project **"BharatKraft"** at JIS Group's inter-college event, a prestigious innovation challenge under the JIS Group umbrella.