SHREYA BHATTACHARYA

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PROFILE

Final-year Electronics & Communication Engineering student with hands-on experience in IoT, embedded systems, and software development. Skilled in C++ with projects spanning web platforms, blockchain, and computer vision. Adept at problem-solving, system design, and collaborative development. Seeking a Software Developer/Systems Engineer role to apply strong analytical and coding skills in building scalable applications.

EDUCATION

B.Tech in Electronics and Communication, VIT BHOPAL UNIVERSITY — Oct 2022 – Apr 2026
- Current CGPA: 8.40

Bhopal, M.P.

High Schooling- PCM (10th : 89.8/100 | 12th : 84.16/100), ST. XAVIER'S HIGH SCHOOL — 2019 – 2021
- Gained a strong analytical foundation, problem-solving skills, and practical knowledge in scientific concepts, preparing for an engineering career.

Hardoi, U.P.

SKILLS

Languages: C++, Python (basic), MATLAB

Frameworks & Tools: Docker(basic), Git/GitHub, VS Code, Arduino, Raspberry Pi, LTSpice

Data Bases: MySQL, MongoDB

Concepts: DSA,DBMS, Embedded Systems, IoT, Signal Processing, Computer Vision

CERTIFICATIONS

MATLAB Onramp & Simulink Onramp, Mathwork — Aug 2024

VLSI Design Certification, Maven Silicon — Jan 2025 – May 2025

Computer Vision, Vityarthi — Aug 2024 – Oct 2024

MongoDB Database, FacePrep — Jan 2025 – Mar 2025

Bits and Bytes of Computer Networking, Coursera — Nov 2023 – Feb 2024

PROJECTS

VeriValue – Walmart Hackathon Project — Jul 2025
- Created a QR-based traceability web platform for sustainability data and batch-wise product tracking.
- Useful for supply chain transparency and quality audits in production systems.

Criminal Detection Using Face Detection — Apr 2025
- Designed and deployed a real-time face detection system using OpenCV and Python for surveillance; integrated camera module on Raspberry Pi and optimized detection with Haar Cascades..
- Optimized accuracy across diverse conditions for rapid database matching.

Gas Level Monitoring System — Aug 2023
- Designed a real-time IoT-based monitoring solution using Raspberry Pi and MQ-02.
- Integrated live data streaming and alert systems to enable 40% faster incident response. Stored sensor data using structured formats suitable for query and visualization.

Designing BioSensors (HEMT) using Silvaco — Mar 2023
- Designed and simulated sensors using HEMT technology in Cadence.
- Focused on optimizing sensor performance for precise detection and efficiency, applying semiconductor design principles and advanced modeling techniques.

EXTRACURRICULAR ACTIVITIES

Technical Lead, VITRONIX Club — Aug 2024 – Aug 2025

Directed a 25-member team, increasing club engagement by 40% through weekly workshops and coding sessions.

Volunteer (National Symposium, ANRF) — Feb 2025

Contributed to event execution and logistics; learned coordination and event planning in a technical setup.