



Prema Ghosh

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Education

Bongaon Kumudini Uchcha Balika Vidyalaya <i>Secondary Education (10th) - 95.6% — Board: WBBSE</i>	2020 <i>Bongaon, West Bengal</i>
Bongaon Kumudini Uchcha Balika Vidyalaya <i>Higher Secondary Education (12th) - 91% — Board: WBCHSE</i>	2022 <i>Bongaon, West Bengal</i>
Institute of Engineering and Management, Kolkata <i>Bachelor of Technology in CSE with specialization in IoT CS BT</i> <ul style="list-style-type: none">1st Year YGPA: 8.322nd Year YGPA: 8.73	2022-2026 <i>Kolkata, West Bengal</i>

Relevant Coursework

- Data Structures, Algorithms Analysis, Database Management
- Object-Oriented Programming, Operating Systems, Computer Networks
- Web Technologies, Software Engineering, Computer Architecture

Projects

Criminal Record Management System / <i>MongoDB, Express.js, React.js, Node.js, Tailwind CSS</i> <ul style="list-style-type: none">• Developed a full-stack web application for efficient criminal record management using the MERN stack.• Designed a structured backend with models, routes, and controllers in Express.js, integrating MongoDB for database operations.• Implemented API endpoints, enabling CRUD operations and secure data handling, tested via Postman.• Utilized React.js for a dynamic frontend and Tailwind CSS for responsive UI design.	2024
Chatbot for Mining Industry Laws / <i>Python, Streamlit</i> <ul style="list-style-type: none">• Designed and implemented a chatbot capable of answering legal queries related to mining industry regulations.• Utilized Natural Language Processing (NLP) techniques to ensure contextually relevant responses.• Developed a user-friendly interface using Streamlit for easy accessibility and interaction.	2024
Multi-Client Chat Application / <i>C++, Socket Programming</i> <ul style="list-style-type: none">• Developed a real-time chat application using C++ and socket programming for multiple clients.• Implemented a multi-threaded server to manage concurrent client connections efficiently.• Ensured secure and seamless communication between users with optimized data transmission.	2025

Technical Skills

Languages: C, C++, Python, HTML, CSS, JavaScript
Developer Tools: VS Code, Git, GitHub, Postman
Technologies/Frameworks: React.js, Node.js, Express.js, MongoDB

Certifications

- Introduction to IoT and Embedded Systems - Coursera
- Cloud Computing Basics - Coursera
- Study Abroad Program on AI, IoT, ML & Data Analytics - Fundamentals - National University of Singapore

Achievements

- Participated in Smart Maker Festival and implemented an IoT-based smart door lock system.
- Solved 150+ DSA problems across various coding platforms.