Sanat Kumar Bhowmik

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SKILLS

- **Languages**:   C++, JavaScript, Java, Python, Kotlin
- **Frameworks**:   HTML and CSS, ExpressJs, NodeJS, React
- **Tools/Platforms**:   MySQL, MongoDB
- **Soft Skills**:   Problem-Solving Skills, Team Player, Project Management, Adaptability

TRAINING

Variable Verse – MERN stack   Dec-Feb 2025
Full Stack

- Learned to develop full-stack web applications using MongoDB, Express.js, React.js, and Node.js, including API creation, database management, and frontend development.
- Implemented secure user authentication with JWT and OAuth, enhancing data security for 1,000+ users across projects.
- Deployed MERN applications on Render and Netlify, reducing load times by 30% and ensuring 99.9% uptime.

Geeks for Geeks   Jun- Jul 2024
DSA

- Solved 300+ DSA problems on GeeksforGeeks, improving problem-solving skills in arrays, linked lists, trees, graphs, and dynamic programming.
- Optimized algorithmic efficiency reducing execution time by up to 50% through advanced techniques like memoization and greedy algorithms.
- Participated in coding contests, achieving a top 10% ranking, and implemented scalable solutions with a focus on time and space complexity.

PROJECTS

E-Commerce Website: January 2025

- Built a   full-stack e-commerce platform with 99.9% uptime, AES-256 encrypted authentication, and OAuth 2.0-based authorization, ensuring secure transactions and seamless user access.
- Designed and implemented 30+ dynamic product listings, achieving 40% faster load times, optimized cart management, and an intuitive checkout system, improving the user experience and reducing cart abandonment by 25%.
- Strengthened expertise in state management, RESTful API development, and secure payment processing, integrating Stripe for 100% PCI-DSS compliance, resulting in 20% faster transactions and enhanced checkout reliability.

  Tech Stack*: MERN Stack (MongoDB, Express.js, React.js, Node.js), JWT Authentication, Stripe Payment Gateway.*

Automated HR Management System Testing   November 2024

- Automated OrangeHRM testing using Selenium WebDriver, reducing manual effort by 80% and cutting test execution time by 50% for login, employee management, and user role assignments.
- Increased test reliability by 30% through the implementation of WebDriver Wait and JavaScript execution, ensuring seamless handling of dynamic elements.
- Optimized automation performance by refining element locators and interaction strategies, achieving a 40% reduction in script failures and 20% faster execution times.

CERTIFICATES

- Cloud Computing (NPTEL)   Aug-Dec 2024
- Complete DSA with C++/Java - Self-Paced (C++) by GFG   Jun-Jul 2024
- Fundamentals of Network Communication (University of Colorado)   Feb-Apr 2023
- Build AI Apps with ChatGPT, Dall-E (Scribe)   Feb-Apr 2023

Extracurricular Activities

Fashion Show Event Organizer   January 2024
Successfully organized and managed a fashion show event, overseeing logistics, team coordination, and promotions to ensure a seamless and engaging experience for attendees.

Part of Service Learning Project   Since January 2015
Actively participating in a Service Learning Project, worked on initiatives related to malnutrition, pollution control, water cleanliness, and poverty alleviation, contributing to ongoing community welfare and social impact.

EDUCATION

Lovely Professional University   Punjab, India
*Bachelor of Technology - Computer Science and Engineering; **CGPA: 6.8***   *Since August 2022*

Hindi Higher Secondary School   Agartala, Tripura
*Intermediate; **Percentage: 78%***   *April 2020 - March 2022*

Brilliant Stars School   Udaipur, Tripura
*Matriculation; **Percentage: 88.4%***   *April 2018 - March 2020*