SATYABRATA DAS

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EDUCATION

B. Tech In Computer Science and Technology
Silicon Institute Of Technology CGPA: 7.34

2022 – 2026
Bhubaneswar, India

Senior School Of Examination - Class XII
Mother's Public School
Scored: 91.8%

2021
Bhubaneswar, India

Secondary School Examination
Prabhujee English Medium School
Scored: 93%

2019
Bhubaneswar, India

PROFESSIONAL EXPERIENCE

AWS Trainee
Silicon Institute Of Technology

08/2023
Bhubaneswar, India

- Architected and deployed a scalable VPC and integrated with Route 53 for enhanced security.
- Administered load-balanced, auto-scaling infrastructure, improving resource allocation by 40%.
- Secured MySQL database connections using OpenVPN, reducing potential security risks by 50%.

DSA Intern (Python)
Silicon Institute of Technology

08/2024
Bhubaneswar, India

- Implemented and optimized fundamental data structures (arrays, linked lists, trees, graphs) in Python, improving algorithm efficiency by 35%.
- Solved over 100+ LeetCode-style problems focusing on time and space complexity, enhancing problem-solving speed.
- Collaborated in a team to build a Python-based CLI tool using stack and queue concepts for real-time task scheduling.

PROJECTS

Riot Keep ⧉
- Developed a task management web app tailored for developers at Riot Games, enabling efficient tracking and categorization of tasks.
- Designed dynamic user interfaces using EJS templates, integrating CRUD functionality with MongoDB for persistent storage.
- Implemented responsive layouts and intuitive UX using vanilla JavaScript, HTML, and CSS to enhance usability.

Skills: JavaScript, Node.js, WebSockets, JWT, MongoDB

R1980-sapera ⧉
- Built a retro snake-style game with Classic and Challenger modes using C++ and Raylib for smooth graphics rendering.
- Implemented logic to generate unique 4-digit numbers without repetition, increasing game difficulty and engagement.
- Designed a vibrant futuristic UI and optimized rendering loops for better gameplay performance.

Skills: C++, Raylib, Game Development, Algorithm Design

LocalBUddy ⧉
- Built an AI-powered chatbot using Gemini AI to assist users with local queries through natural language interactions.
- Integrated EJS templating with Node.js and Express to render real-time chatbot responses in a clean web UI.
- Handled API communication, session management, and user inputs to ensure smooth and responsive chat flow.

Skills: Gemini AI, Node.js, Express, EJS, JavaScript.

SKILLS

Programming Languages: Java, C, JavaScript, C++,Python
Web Development: HTML, CSS, React, Tailwind CSS, Express, Node.js, REST APIs
Databases: MongoDB, MySQL
DevOps & Tools: Git/GitHub, Linux, AWS, CI/CD, VSCode, Generative AI (GenAI)
Cybersecurity and Pentesting: Kali Linux, Burp Suite, Nmap, Wireshark, Metasploit, Nessus, SQL Injection, XSS, CSRF, Network Scanning, Vulnerability Assessment, Ethical Hacking