

# SHANTANU SARKAR

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## PROFESSIONAL SUMMARY

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Motivated BCA student and Web Developer with hands-on experience in building responsive, user-centric web applications using HTML, CSS, JavaScript, and Python (Flask). Experienced in frontend development, backend fundamentals, and database integration, with a growing focus on Data Structures & Algorithms and DevOps fundamentals. Passionate about continuous learning and building scalable, real-world software solutions.

## EDUCATION

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### Gandhi National College (Utkal University)

Bachelor of Computer Application (BCA)

Bhubaneswar, Odisha

2023 - 2026

- Focusing on Core Computer Science principles including Data Structures, DBMS, and Software Engineering.

### Dhanbad Public School

Class XII (Science Stream)

Dhanbad, JH

2021 - 2023

## EXPERIENCE

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### Web Development Intern

Bharat Coking Coal Limited (BCCL)

June 2025 - July 2025

Dhanbad, JH

- Designed and developed a responsive corporate website using HTML5, CSS3, and JavaScript, ensuring a 20% increase in cross-device accessibility.
- Implemented mobile-first design strategies and verified performance across multiple browser engines.
- Revamped internal navigation systems to improve user flow and reduce bounce rates on key pages.
- Applied frontend optimization techniques such as asset minification and lazy loading for faster load times.
- Collaborated with senior IT staff to align web components with corporate branding and security guidelines.
- Documented technical workflows for deployment and ongoing maintenance of the site modules.

## PROJECTS

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### Web-Based Quiz Application | Python, Flask, HTML, CSS, JS, SQLite

2024

- Architected a full-stack quiz platform featuring secure user authentication and dynamic question generation.
- Developed robust backend logic using Flask and SQLite to handle session-based scoring and user profiles.
- Implemented an intuitive MVC architecture to separate business logic from the responsive UI layers.
- Integrated real-time feedback mechanisms for users to review performance metrics post-quiz.

### Personal Portfolio Website | HTML5, CSS3, JavaScript

2024

- Built a high-performance personal brand site utilizing modern CSS Grid and Flexbox for fluid layouts.
- Enhanced interactivity through custom JavaScript animations and smooth-scrolling components.
- Conducted thorough testing to achieve top scores in Lighthouse for SEO and Web Accessibility.

## TECHNICAL SKILLS

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**Languages:** Python, C, C++, Java, PHP, JavaScript, HTML5, CSS3, SQL (MySQL, SQLite)

**Frameworks:** Flask (Backend), React.js (Basics), Node.js (Basics), Bootstrap

**Developer Tools:** Git, GitHub, VS Code, Browser DevTools, Postman, Command Line

**Core Concepts:** Data Structures & Algorithms, RESTful APIs, UI/UX Principles, Responsive Web Design

## SOFT SKILLS

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**Interpersonal:** Problem Solving, Team Collaboration, Effective Communication, Adaptability

**Operational:** Project Coordination, Time Management, Attention to Detail, Continuous Learning