

RAJA KUMAR

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EDUCATION

Kalinga Institute Of Industrial Technology University

B.Tech in Computer Science

Bhubaneswar, Odisha

2023 - 2027

- Current CGPA: 9.1
- Currently in 2nd year of study

Sardar Patel Public School

Intermediate in PCM

Bokaro, Jharkhand

2022

LANGUAGES

English: Upper Intermediate

Hindi: Advanced

TECHNICAL SKILLS

Core Competencies: Data Structures, Algorithms, Object-Oriented Programming (OOP), DBMS

Languages: Java, Python (Basics), MySQL (Basic), C, HTML5, CSS, Rust (Basics)

Frameworks: Webflow, TensorFlow (Basics), Node, WordPress, Next.js, TailwindCSS, Appwrite

Developer Tools: Git, VS Code, PyCharm, IntelliJ, Sentry, Asternity

PROJECTS

Personal Portfolio Website | *Next.js, Tailwind CSS, Sentry*

September 2024

- Designed and developed a responsive portfolio website to showcase projects, skills, and achievements.
- Utilized Next.js framework for server-side rendering and enhanced SEO performance.
- Incorporated Tailwind CSS for rapid and responsive UI development.
- Integrated Sentry for real-time monitoring and error tracking to ensure a seamless user experience.

Password Generation System | *Python*

November 2024

- Developed a Python-based system for generating strong and secure passwords.
- Designed customizable password criteria, including length, special characters, uppercase/lowercase letters, and numbers.
- Implemented algorithms to ensure randomness and avoid predictable patterns in password generation.
- Integrated a feature to save and manage generated passwords securely in an encrypted file.
- Tested the system for efficiency and security to ensure compliance with best password practices.

Game Leaderboard System | *Data Structures, Algorithms*

December 2024

- Developed a real-time leaderboard system for gaming platforms using AVL Trees, Binary Search Trees, and Heaps.
- Implemented efficient ranking algorithms to handle dynamic score updates in real time.
- Tested the leaderboard for accuracy and performance under simulated high-traffic scenarios.
- Focused on maintainable and modular code architecture for future enhancements.

Cloudly: Storage and File Sharing Platform | *Next.js, Appwrite, TailwindCSS*

January 2025

- Implemented user authentication (signup, login, logout) using Appwrite's secure authentication system.
- Developed features for uploading, browsing, renaming, and deleting a variety of file types.
- Built a dashboard displaying total/consumed storage, recent uploads, and file statistics grouped by type.
- Enabled file sharing and global search capabilities for efficient file management and collaboration.
- Incorporated a modern, responsive design with TailwindCSS and ShadCN, ensuring a clean and accessible UI.

Operating System Development (RISC-V) | *RISC-V, Rust, Assembly*

Ongoing

- Started developing an OS from scratch using RISC-V architecture, focusing on core principles of ISA.
- Gaining experience in low-level programming with Rust and Assembly for kernel and memory management.

ACHIEVEMENTS

Second Place in HACKABOT Hackathon

November 2024

UiPath Studio Web

- Developed a resume screening process using UiPath Studio Web, automating the entire workflow for efficiency.
- Automated email response processes as part of system integration.
- Using ChatGPT, improved resume screening capabilities and candidate selection accuracy was assessed.
- Implemented resource-sharing features within UiPath to streamline the overall process.
- GitHub Link: [Resume-Screening](#)