Rohan Sarna

Software Engineer

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Profile

Experienced computer science professional with a B.Tech background, proficient in Python, C, C++, JavaScript, and skilled in implementing data structures. Committed to community service through mentoring and active volunteering. Demonstrated leadership in project management, including an internship at Tosscall Private Limited, and successful delivery of projects such as a Library Management System and a Deep Learning-Powered Plant Detection App. Strong communicator fluent in English and Hindi, known for delivering impactful solutions.

Areas of Expertise

Coding - C - C++ - Data Structures and Algorithm - Algorithms - Algorithm Optimization - Java - Python - JavaScript - Web Development (MERN) - Project Building - Photography - Leadership - Time Management

Professional Experience

Web Development Intern *(Tosscall Services)*   **Bhilai, Chhattisgarh**   *05/06/2023 - 04/09/2023*
(Link)

- Collaborated with Software Engineers to develop and test applications. (Tech Stack ; **HTML , CSS , JavaScript , Java**)

- Worked Closely with peers to identify Issues and provide suitable resolutions.

- Write clear,clean code for various Projects.

- Delivered Projects Report and milestone to Supervisor.

Online Courses & Certifications

- Full Stack Web Development Course - MERN Stack (March, 2023) – Coding Shuttle

- National Institute of Training and Skill Development – Certificate

- Learn C++ Programming -Beginner to Advance- Deep Dive in C++ – udemy

- Mastering Data Structures & Algorithms using C and C++) – Udemy

- The Complete JavaScript Course 2023: From Zero to Expert! – Udemy

- Photography Masterclass: A Complete Guide to Photography – Udemy

Education

B.Tech Information Technology *Bhilai Institute Of Technology ,Durg*   **Percentage : 74.04%** *2020-2024*
Relevant Courses: Software and Hardware, Operating System , Database Management System , Computer Network, Theory Of Computation , Data Analysis , Machine Learning , Artificial Intelligence

All India Senior School Certificate Examination *Krishna Public School,Bhilai*   **Percentage : 82.02%** *2019-2020*
Relevant Courses: Mathematics

All India Secondary School Examination *Krishna Public School ,Bhilai*   **Percentage : 77.67%** *2017-2018*

Skills

- **Software Development:** C , C++ , Java , JavaScript

- **Algorithms :** Greedy , Dynamic Programming , Sorting , etc

- **Software:** MS Office , Adobe Photo Shop, Adobe Illustrator , MS Word , Ms Excel

- **Web Development :** HTML , CSS , JavaScript , Tailwind CSS , MongoDB , Express.js , React.js , Node.js , Latex

- **Database Management System:** MySQL

- **Data-structures :** Array , Linked List , Stack , Queue , Trees , Graphs , Trie , Heap , etc.

- **Soft Skills:** Presentation, Planning, Organized, Creative Problem-Solving, Teamwork, Active Listening, Adaptability, Analytical Thinking

Projects

- **Plantify:** A Deep Learning-Powered App for Plant Detection

- The core feature of the app is its ability to recognize plants from images uploaded by users. This typically involves machine learning algorithms trained on a large dataset of plant images.

- Provide users with suggestions and guidance to help identify unknown plants based on visual characteristics such as leaves, flowers, fruits, and stems. Offline Mode: Ability to function even without an internet connection, allowing users to identify plants while in remote locations or areas with poor connectivity.

- Compatibility with accessories such as smartphone macro lenses or handheld microscopes to capture detailed images for more accurate identification.

- **Machine Learning , Artificial Intelligence , Python**

- **Library Management System** A library management system is a software solution designed to help libraries efficiently manage their operations and resources

- Cataloging and Classification: Ability to catalog library materials such as books, periodicals, multimedia items, and other resources.

- Search and Discovery: User-friendly search functionality to allow patrons to easily find library materials based on various criteria, including title, author, subject, keyword, and ISBN/ISSN. Advanced search options may include filters, Boolean operators, and facets.

- Capability for librarians to check items in and out, track borrowing history, and manage due dates and renewals. This feature may also include self-service kiosks or mobile apps for patrons to perform self-checkout.

- User Management: Management of patron accounts, including registration, authentication, and profile management. This feature enables librarians to track borrower information, set borrowing privileges, and maintain communication with patrons.

- **C , C++ , Object Oriented Programming, file handling to store user and books data**.

- **AI Virtual Mouse** AI virtual mouse in Python: Hand gesture recognition tracks movements to control cursor, click, drag, and interact with applications seamlessly.

- Gesture Recognition: The virtual mouse should be able to recognize hand gestures or movements captured by a camera.

- Machine Learning Models: Employing machine learning models, particularly deep learning-based approaches such as convolutions neural networks (CNNs), to classify hand gestures accurately.

- Real-time Tracking: The virtual mouse should track the movement of the user's hand continuously in real-time to simulate mouse cursor movements accurately.

- Click and Drag Actions: Supporting functionalities for simulating mouse clicks (e.g., left-click, right-click) and drag-and-drop actions based on specific hand gestures or movements.

- **Python , Scikit-learn , Pytorch , pyautogui , OpenCV**

- **Resume Builder** Java-based resume builder: Intuitive UI for data input, template selection, and formatting; enables export to PDF with customization options, facilitating streamlined creation of professional resumes.

- User Interface: Develop a user-friendly interface where users can input their details. Use libraries like Swing or JavaFX for creating the GUI. Input Fields:

- Template Selection: Offer multiple resume templates for users to choose from. Templates should be customizable to accommodate varying amounts of information.

- Preview Functionality: Provide a preview feature so users can see how their resume will look before finalizing and Enable users to export their resume in different formats such as PDF, Word document, or plain text.

- **Java , MySQL , Apache Server , itextPDF JAR , JFileChooser**

Achievement

- Top Rank Holder in GeeksforGeeks in college – Rank:1

- Extraordinary Performance in Coding Contest

Articles and Publications

- How AD's are Tracking Us

Volunteering Experience

- **Self :** Teacher Guided a Batch of Students about Basic Programming and Basic Data-Structures

- **Positivity Society** Engaged in impactful NGO work, advocating for community empowerment, education, and healthcare access, fostering positive social change.

Languages

- **Hindi** [Native]

- **English** [Read-Write-Speak]