

GAURAV RAI

+91 9934815477 ◇ Ranchi, Jharkhand

gauravrai85008@gmail.com ◇ www.linkedin.com/in/gaurav-rai-52403a289 ◇ <https://github.com/usergaurav/h-r.github.io>

OBJECTIVE

"Motivated and skilled software developer with strong expertise in C++ programming, data structures, and object-oriented design. Passionate about solving complex problems, delivering scalable software solutions, and contributing to team success."

TECHNICAL SKILLS

Languages: C++, JAVA, JAVASCRIPT, PYTHON

Web Technologies : HTML, CSS, Bootstrap, WordPress

Data Management : MySQL, MongoDB

Version Control: Git.

INTERNSHIP

Developer

Feb 2023 - Mar 2023

Buck Softech Pvt.Ltd

Ranchi, Jharkhand

- Contributed to the development and maintenance of responsive web applications using HTML, CSS, and Bootstrap.
- Detected and resolved software bugs to enhance user experience and application performance.
- Collaborated with a team to ensure timely delivery of project milestones.

PROJECTS

E-Commerce Management System

May 2024

Technology Stack: C++, SQL, and structured programming.

- Developed an advanced e-commerce management system to handle product inventory, customer data, and order processing.
- Utilized C++ for core logic, integrating SQL for database operations to ensure efficient data storage and retrieval.
- Designed modules for adding, updating, and searching products and managing customer orders.
- Implemented robust file handling for maintaining logs and backup data in case of system failure.
- Focused on providing smooth user experience with a console-based interface.

Car Rental Management system.

Nov 2023

Technology Stack: C++, OOPS Principles, File Handling

- Built a modular car rental management system using C++ with OOP principles.
- Integrated features for reservation handling, customer profile management, and booking operations.
- Ensured data persistence through robust file handling mechanisms.
- Applied encapsulation, inheritance, and polymorphism to achieve a scalable and maintainable codebase.

Brick Breaker Game

May 2023

Technology Stack: Java, Java swing, AWT.

- Recreated the classic arcade-style Brick Breaker game using Java Swing and AWT.
- Implemented game physics for paddle movement and collision detection.
- Ensured a responsive and engaging gameplay experience through efficient event handling.

Dynamic Sorting Visualizer

Technology Stack: Python, Tkinter, Matplotlib
Dec 2022

- Developed an interactive tool to visualize sorting algorithms like Quick Sort, Merge Sort, and Heap Sort.
- Created an intuitive UI using Tkinter and enhanced graphical representation with Matplotlib.
- Designed the tool to help users understand algorithm efficiency and behavior.

CERTIFICATIONS

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|---|----------------|
| • Introduction to cyber security and tools — Coursera | Aug 2023 |
| • Cloud Computing — NPTEL Online Certification | Jan-April 2022 |

ACHIVEMENTS

- Awarded Gold Medal in the Capture the Flag Hack Master Series, a national-level cybersecurity competition.
- Achieved 3-star rating in Hacker Rank’s daily C++ contests.

EDUCATION

- **Master of Computer Applications**

Lovely Professional University | August 2022 – August 2024
CGPA: 7.82

- **Bachelor of Computer Applications**

Ranchi University | August 2019 – July 2022
CGPA: 8.88