

# SHIVAM SINGH

Software Engineer

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**Summary:** Highly motivated and self-driven **software engineer** with more than **1 years** of professional experience. Possessing a strong foundation in **C++, Python, Erlang, SQL**, web development. With a solid understanding of software engineering principles and best practices I have successfully contributed to the design, development, and deployment of various software projects.

## SKILLS

- **Programming Languages:** C++, Python, Erlang
- **Web-dev:** HTML5, CSS3, JavaScript, Node.JS
- **Databases:** MySQL
- **Agile Development:** JIRA, GIT, Confluence, Slack
- **Others:** Postman, Pytest, Test-driven development

## CORE COMPETENCIES

- Data Structures and algorithms
- Object Oriented Programming
- DBMS
- Web development

## EDUCATION

BTech

**NIT Kurukshetra**

Production and Industrial Engineering  
2018-2022 CGPA: 8.59

Senior Secondary(CBSE)/12th grade

**Apex Public School**

2016-2017 Percentage: 85%

Secondary(CBSE)/10th grade

**Radiant Central Academy**

2014-2015 CGPA: 10

## CERTIFICATIONS

- Introduction to C++ (Coding Ninjas)
- Data Structures in C++ (Coding Ninjas)
- SAFE® 5 Practitioner by Scaled Agile, Inc.

## LANGUAGES

Hindi, English

## HOBBIES

Volleyball, Cricket, Chess

## WORK EXPERIENCE

**GreyOrange** (10 months)

July, 2022 - Present

**Software Engineers**

Worked in the core team of GreyOrange that handles the movement of robots in the warehouse. The complete microservice-based operating system handles charging, safety, task assignment, and navigation of robots for pick-up and drop operations in the warehouse.

- Single-handedly handled tasks related to power and safety management.
- Automated the process of creating dev-test environments by synchronously pulling the database from the live site. Also, automated the cleanup process, resulting in increased efficiency.
- Designed and developed a multitype bot handling system.
- Handled automation testing with development.

**Technologies Used:** Erlang, Mnesia, Python, Pytest

**Siemens** (5 months)

Jan 2021 - May 2021

**Research Intern**

Project: Weight Reduction of Wagons in Indian Railway

- Software used: Simcenter 3D
- Achieved a 3% weight reduction using material substitution in Simcenter 3D.
- Substituted steel with aluminum alloys(AL-2014).

## PERSONAL PROJECTS

**Simon Game**

- Developed using **HTML, CSS, and Javascript**.
- In this color memory game, players must click on each color in the sequence they were presented, including the most recent color, which is randomly generated each turn.

**E-Commerce System**

- Developed a feature-rich E-Commerce System in **C++**, leveraging **object-oriented programming** and efficient data structures.
- Implemented user management, authentication, cart management, market management, and order placement functionalities.
- Ensured scalability and smooth user experience through optimized code and algorithmic thinking.

**ToDo List**

- Developed using **HTML, CSS, Javascript, Node.js, Express.js, MongoDB**.
- The website tells the current date to the user and the tasks to be performed.
- It has a database and the user can add or delete tasks accordingly.

## ACHIEVEMENTS

- Highest Rating of Specialist on Codeforces (handle @\_\_Ryuk\_\_)
- Contest Rankings: Global rank 618 in Codeforces #707 (div2).