

# Suyog Magar

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## EDUCATION

### Chandigarh University , Punjab

Bachelors of Engineering in Computer Science and Engineering

Sep 2021 - TILL NOW

### DIVINE Life School, Ahmedabad

Senior Secondary (Class XII)

April 2020 - March 2021

Percentage:75

## PROJECTS

### 1. GeoRescue [Emergency Response Platform]

- Developed a full-stack emergency response platform using **Spring Boot** for back-end processing and **React.js** for a user-friendly front-end interface, facilitating **real-time** rescue operations.
- Implemented key features such as user authentication, live location tracking, and emergency reporting, ensuring efficient coordination and timely responses.
- Utilized MongoDB for scalable data storage and integrated RESTful APIs, **improving data retrieval speed by 30%** and enhancing overall system **performance by 20%**.
- Technologies:: **Core Java, Spring Boot, React.js, MongoDB**

### 2. Huffman Coder [File Compression System]

- Designed and implemented a Java-based file compression system using the Huffman Coding algorithm, achieving up to **50% reduction in file size** for various file types.
- Optimized the encoding and decoding processes, resulting in a **30% improvement in compression and decompression speed** compared to standard implementations.
- Automated testing and validation processes using **JUnit**, achieving **100% test coverage** and reducing debugging time by **25%**.
- Technologies: **Core Java, Data Structures and Algorithms, OOP's**

### 3. H2O Guardian

- Designed and developed an **IoT-based** solution for real-time water pollution monitoring, utilizing advanced sensor technology to continuously measure critical water quality parameters such as pH, turbidity, and dissolved oxygen levels.
- Implemented data analytics algorithms to process and analyze collected data, **achieving over 90% accuracy** in detecting pollution trends and anomalies.
- Provided actionable information through automated alerts and dashboards, allowing timely intervention and reducing response time by **40% for pollution remediation efforts**.
- Technologies: **IOT, RESTful API's**.

## SKILLS AND INTERESTS

**Technical Skills:** Core Java, Spring Boot, Spring Security, React.js, Docker, Kubernetes, MongoDB .

**Tools:** GIT, Kubernetes, IntelliJ IDE, Jenkins, JIRA Software, VS Code, SOAPUI, POSTMAN.

**Non Technical:** Teamwork, Leadership, Public Speaking

## RELEVANT COURSEWORK

**Computer Science:** Data Structures, Algorithm, Database Management System, Object Oriented Programming, MySQL, Machine Learning, Artificial Intelligence, Natural Language Processing, UI design .

## CERTIFICATIONS

- The Java Language – LearnQuest (Coursera)
- Discrete Mathematics [ELITE] - IIT Ropar [NPTEL].
- Continuous Integration and Delivery - DevOps - Infosys(SpringBoard)
- Spring MVC - Infosys Springboard.

## OTHER WORK EXPERIENCE

### IEEE , Chandigarh University

IEEE Member, Associate

June 2023 - July 2023

- Led a team within IEEE, overseeing Core Java, API development, and Testing projects, demonstrating leadership skills and coordinating efforts to achieve project goals effectively.
- Designed and implemented Java Spring Boot-based backend solutions, integrating RESTful APIs with front-end frameworks and ensuring seamless data flow, security, and optimized performance.

## HONORS AWARDS

- Runner Up at Hackathon [KAVACH] organised by Chandigarh University.
- Winner at Techno Tank 1.0 organised by Chandigarh University.