

# Mohammed Imran

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## EDUCATION

**Birla Institute of Technology and Science, Pilani**, Hyderabad campus. 2021-2025  
*Bachelor of Engineering in Computer Science, CGPA:*

**Sri Chaithanya Educational Institutions**, Hyderabad 2019-2021  
*PCM, Cum. Percentage: 99.6 %*

**Relevant Courses:** Data Structures and Algorithms, Design and Analysis of Algorithms, Object Oriented Programming in Java, Database systems, Computer Networks, Computer Architecture, Operating systems, Machine Learning, AI, Blockchain Tech.

## TECHNICAL SKILLS

**Programming Languages:** C/C++, Java, Python, JavaScript, SQL, Solidity.

**Technologies/Frameworks:** React.js, Node, Tailwind, Spring Boot, Python Libraries.

## PROJECTS

**Blood Bank**, Full Stack Web-Application June - Aug 2023

- An end to end, web application that stores the information of registered Donors, Patients fully authorized by Admin.
- Designed responsive pages for the Admin and Donors with Dashboard, Registrations, Profile and Login functionalities.
- Developed using React for frontend and Spring boot for creating RESTful APIs connected to MySQL database.

**Property Rental Agency**, PL-SQL based relational database Application Feb - April 2023

- A simple application to mediate management and sharing of properties between owners, tenants and view monthly reports for the property and the tenant.
- Designed a relational schema and EER model pertaining to the requirements of the rental agency.

**Health-Chain Management system with Challenge-Response Authentication** Mar-April 2024

- A Blockchain-based Decentralized Application for storing and sharing of EMR (Electronic Medical Records) of patients.
- Implemented HMAC (Hash-Based Message Authentication Code) protocol for secure authentication of users.

**Prediction of secondary structure of RNA**, Dynamic Programming (Data Structures and Algorithms) Apr - May 2024

- Implemented the Dynamic Programming Algorithm to predict the secondary structure of a RNA using JAVA.

**Web Implementation of Convex Hull**, Design and Analysis of Algorithms Feb - Mar 2024

- Carried out the web- implementation of Convex Hull using Kirk Patrick Siedel and Jarvis March Algorithms in JavaScript.
- An interactive user interface has been developed to visualize the formation of convex hull.

**Early Detection of Heart Disease**, Machine learning for sustainable development goals (SDG's) Oct – Nov 2023

- Developed Machine learning models that can predict the presence or absence of heart disease in patients based on their clinical and demographic information using the dataset.
- Implemented predictive models using Perceptron's Algorithm, KNN, AdaBoost, CatBoost and achieved accurate predictions of heart disease using standard and feature-engineered datasets from scratch.

## EXPERIENCE

**Summer Intern at Nirmaan Organization, Hyderabad** May-July 2023

- Worked as Full-Stack Web Developer and carried out the development of the website **Blood Bank** for the organization.

## POSITION OF RESPONSIBILITY

**Active Volunteer**, NSS, BITS Pilani Dec - Oct 2023  
**Technical Team Member**, Computer Science Association, BITS Pilani Jan - Dec 2023  
**Carrom Teams Captain**, Student Activity Centre, BITS Pilani Dec- May 2023