

# Mohammad Roomaan

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## Summary

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Software Engineering student with strong foundations in C++, Java. Skilled in building web applications using HTML, CSS, JavaScript, jQuery, React, and Node.js. Experienced with SQL (PostgreSQL, SQLite) and RDBMS concepts. Exposure to API design, and Agile practices. Strong problem-solving abilities with experience in designing scalable full-stack solutions and applying AI/ML concepts to enhance applications.

## Education

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**B.Tech in Computer Science & Engineering (AI/ML)**, VNR VJIET 2022–Present  
CGPA: 8.3

**Intermediate (PCM)**, Narayana College 2020–2022  
Score: 95%

**SSC**, SHHS 2020  
GPA: 10.0

## Technical Skills

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**Languages:** C++, Java, Python

**Web:** HTML, CSS, JavaScript, jQuery, React, Node.js, Express.js, Tailwind CSS

**Concepts:** Object-Oriented Programming (OOP), Data Structures & Algorithms, RDBMS, Software Development Lifecycle (SDLC), Agile (SCRUM)

**Tools:** Git, GitHub, Postman, VS Code, Jupyter Notebook

**Databases:** SQL Server (proficiency), PostgreSQL

**Data & Analysis:** Tableau, Power BI, Pandas, NumPy

## Projects

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### Online Food Ordering Platform (MERN, REST APIs)

- Built a full-stack food delivery application using MongoDB, Express.js, React.js, and Node.js.
- Designed and implemented REST APIs with secure authentication and cart/order workflows.

### Personalized Fitness & Meal Planner (GenAI & Rule-Based Workflow)

- Designed a personalized fitness and nutrition planning system combining logic-based segmentation and generative AI.
- Applied AI/ML techniques via Hugging Face Transformers (Mistral-7B) to generate customized plans.

### Plant Diagnosis System (Deep Learning)

- Built and deployed an image classification system with ResNet-50 achieving 95.6% accuracy on 50K+ leaf images.
- Deployed using Streamlit; optimized efficiency with quantization.

### Book Review Application (PostgreSQL, Web)

- Built a full-stack book review platform with user authentication and CRUD operations.
- Designed relational database using PostgreSQL and optimized queries for seamless review management.

### **Expense Tracker (Java, SQLite)**

- Developed a console-based expense management system with CRUD operations using Java and JDBC.
- Integrated SQLite for persistent local storage and implemented category-wise spending summaries.

## **Leadership & Achievements**

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- 1st Place – Campus Automation Hackathon (GDSC-VNR VJIET)
- 3rd Place – Project Showcase, VNRVJIET Tech Fest
- Outreach Coordinator, CSE-AIML & IoT: Led 5+ workshops for 100+ students; organized field visits
- Drove participation in university-wide events through team collaboration and strategic promotion

## **Certifications**

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- Coursera – Supervised Machine Learning: Regression and Classification
- Coursera – Advanced Learning Algorithms
- Udemy – Full Stack Web Development Bootcamp
- Udemy – Tableau 2022 Training for Beginners