

# MANAS RAWAT

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## SUMMARY

Results-oriented professional with experience in software development and web design. Skilled in problem solving and adept at collaborating within dynamic teams. Committed to continuous learning and passionate about creating user-friendly applications.

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## PROJECTS

### IoT-Enabled Soil Nutrition Monitor

- Description: Found useful and formulated an IoT system for monitoring soil health for enhanced agricultural production. Connected pH sensors to Arduino and Raspberry and processed data wirelessly to the software program.
- Technologies Used: Arduino, Raspberry Pi, Wi-Fi/Bluetooth modules, Python, Web Dashboard using HTML, CSS, JS.

### Compiler-like Tool for Mini-Language

- Description: Created a transpiler to convert custom m1 language into C11 code. The tool performs syntax validation, translates m1 to C, and executes the compiled program.
- Technologies Used: C11, Custom Parsing Logic, Shell Scripting

### Full Stack e-commerce Application

- A full-stack e-commerce application using the MERN stack. For the frontend, used React to create components for displaying products, user authentication forms, and the shopping cart, ensuring the application is responsive for both mobile and desktop.
- For the backend, created a Node.js/Express.js server with API routes for handling CRUD operations and integrated MongoDB for data storage. Implemented user authentication using JWT

### Serving Hands

- Description: Developed a Java-based application to connect food donors with local charities, facilitating the donation and collection of surplus food to reduce waste and support those in need.
- Technologies Used: Java, MySQL

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## EDUCATION

### Masters of Science in Information Technology

University of Western Australia • Perth • 2025

### Bachelor of Technology in Software Engineering

Jain University • India • 2022

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## SKILLS

### Technical Skills

- **Programming Languages:** C, C11, Python, JavaScript
- **Cloud Technologies:** AWS (EC2, S3, DynamoDB, IAM, KMS)
- **Web Development:** HTML, CSS, JavaScript, REST APIs
- **Database Management:** MySQL, PostgreSQL, DynamoDB, SQLite
- **Cybersecurity:** IAM policies, Encryption (AES, KMS), Network Security

### Soft Skills

- **Project Management**
- **Problem Solving**
- **Communication**
- **Adaptability**