



Manish Varada Reddy

Dynamic IT professional with a Master's in Information Technology from UWA, bringing expertise in software development, project management, and business analysis to deliver innovative solutions and drive organizational success. (I hold 485 Visa.)

PORTFOLIO : <https://www.manishreddy.com>



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SKILLS

- * Programming Languages: C/C++, Python, Java.
- * Web Technologies: HTML, CSS, JavaScript, TypeScript, PHP.
- * Database Management: SQL, SPARQL.
- * Frameworks: Django, Flask, React.

CERTIFICATION

Microsoft Technology Associate (MTA) – Introduction to Programming using JavaScript
Certificate Number: wAhHC-2Fwb

PROJECTS

- * Health Condition Predicting Model:
Led a team to develop a health prediction model using HTML, CSS, JS, Python, and ML algorithms.

* CollegeBro App

- Designed and developed a website providing educational resources using HTML, CSS, Js, PHP, and SQL.

- Created an APK version using Cordova.

https://github.com/Manishv005/College_Bro_APK.git

* Smart Door Lock System

- Developed a smartphone-controlled, internet-connected deadbolt actuator using a Raspberry Pi, high torque servo, and Blynk app.
- Implemented features like LED lock status indicator and manual override button.
- Designed 3D printed components for easy installation and customization.

* Agile Web Development Project

- Collaborated on a web development project using Agile methodologies, focusing on iterative development and client feedback.
- Utilized HTML, CSS, JavaScript, and backend technologies to create a dynamic web application.
- Implemented database integration for user authentication and data management.

PROJECT NAME : PuzzleMe Application

- Developed an online platform for creating, searching, and playing puzzles using HTML5, CSS, Bootstrap, jQuery, AJAX, Flask, Websockets, and SQLite (via SQLAlchemy).

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 - Implemented user management features such as signup, login, logout, and profile editing.
 - Enabled users to create and search puzzles, with gameplay involving guessing letters to solve puzzles.
 - Developed a leaderboard to display top players based on their scores and ranks.
 - Used Pytest and Selenium for unit testing, ensuring the reliability and correctness of the codebase.(<https://github.com/Manishv005/AgileWebDevProject35.git>)

- * **Interactive Visualization Tool for ISO 15926-4 Hierarchical Data for (NLP-TLP UWA GROUP)**
Contributed significantly to the development of an interactive visualization tool for exploring hierarchical relationships using Streamlit, NetworkX, and D3.js.
Key contributions included:
 - GUI Design and Webpage Layout: Designed the complete graphical user interface, integrating the client's logo and structuring the webpage for intuitive navigation.
 - Enhanced Search Functionality: Developed advanced search features, including search by name, adjustable parent/child node levels, and auto-fill suggestions.
 - Graph Interaction and Visualization: Implemented color-coded nodes, corrected arrow direction, and ensured hierarchical flows were clearly visualized. Added functionality for switching between plot types and optimized plot dimensions.
 - Hierarchical Tree Visualization: Created a D3 tree structure to visualize entire hierarchies dynamically.
 - User-Centric Enhancements: Improved user experience with interactive features like node clicking, hovering, and dragging, along with clear visual indicators for easier comprehension of complex data.

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 - Technologies used: **Streamlit, NetworkX, D3.js, SPARQL**<https://github.com/nlp-tlp/15926-4-CITS5206-18.git>
(https://youtu.be/yO_YqlkHXQc?si=VmQi4tQF6sigJV70)

EDUCATION

Master of Information Technology

2023-2024

University of Western Australia, Perth

GPA : 5.1 out of 7

Bachelor of Engineering in Information Science and Engineering

2017-2021

Sambhram Institute of Technology, Bangalore

CGPA: 7.69

12th Grade , PRE-UNIVERSITY (PCMC)

2015-2017

Reva Independent PU College, Bangalore

Percentage: 70.66%

Grade 10th, Board-ICSE

2015

Ryan International School, Bangalore

Percentage: 76%

EXPERIENCE

Intern, Python-based ERP Modules and Web Technologies

- * Prime Minds, Bangalore
(Jan 2020 – Apr 2020)
 - Developed ERP lifecycle modules including invoice generation and inventory management using ODOO.
 - Created a website for user login data storage and validation.