

Tharun K

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GitHub: github.com/Tharun-kalidasan | Portfolio: tharun-kalidasan.github.io/web-Programming-Projects |

LinkedIn: linkedin.com/in/tharun-kalidasan

Professional Summary

Motivated B.Tech Computer Science and Engineering (Data Science) student with hands-on experience in software development, machine learning, and cloud technologies. Skilled in designing efficient algorithms, deploying scalable web applications, and implementing network protocols. Passionate about applying data-driven solutions to real-world challenges and eager to contribute to impactful projects in AI and cloud computing.

Education

B.Tech in Computer Science and Engineering (Data Science)

VIT University, Vellore | Expected Graduation: May 2027

Technical Skills

- Programming Languages: Python, Java
- Web Technologies: HTML, CSS, JavaScript, MATLAB
- Database Management: MySQL
- Cloud Platforms: AWS (EC2, RDS)
- Core Concepts: Machine Learning, Compiler Design, Computer Networks, Theory of Computation, Data Structures & Algorithms

Soft Skills

- Communication, Leadership, Teamwork, Adaptability, Problem-Solving, Conflict Resolution, Critical Thinking, Ability to Work Under Pressure

Projects

• Lexical and Syntax Analysis with Parse Tree Implementation

Designed a program to perform lexical and syntax analysis, generating parse trees for expressions, improving understanding of compiler construction.

• Network Protocol and Error Detection Techniques

Implemented CRC, checksum, and Hamming code error detection techniques along with stop-and-wait, go-back-N, and selective repeat protocols to analyze reliability in data transfer.

• Data Structures and Algorithm Implementation

Developed programs to implement core data structures (stack, queue, dequeue, and trees) and algorithms for searching and sorting.

• AWS: EC2 Instance and Web Application Deployment

Configured and deployed a web application with database integration using AWS EC2 and RDS, ensuring 99% uptime in testing environment.

• Web Projects Portfolio

A collection of responsive web projects showcasing modern CSS techniques and JavaScript functionality. Portfolio hosted at GitHub.