WISDOM SPROUTS
IT Training Hub

C Programming

Duration: 30 Days

Register Here

7770043825

406'White Square,
Hinjewadi, Pune.

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C Programming

- Introduction to C Programming
  - History and importance of the C programming language
  - Setting up a C development environment (IDEs, compilers)
  - First C program: Hello World
  - Basic structure of a C program
  - Data types and variables in C
- Control Flow
  - Conditional statements (if, else if, else)
  - Loops (while, for, do-while)
  - Switch-case statements
  - Break and continue statements
- Functions and Modular Programming
  - Defining and declaring functions
  - Function prototypes and headers
  - Passing arguments to functions
  - Return values and void functions
  - Scope and lifetime of variables
- Arrays and Pointers
  - Arrays in C
  - Multidimensional arrays
  - Pointers and pointer arithmetic
  - Pointers and arrays
  - Dynamic memory allocation (malloc, free)
- Strings and Character Handling
  - C-style strings (null-terminated character arrays)
  - String manipulation functions (strcpy, strcat, strlen, etc.)
  - Character input and output functions (getchar, putchar, etc.)
- Structures and File I/O
  - User-defined structures (structs)
  - Working with structure members
  - File handling in C (fopen, fclose, fread, fwrite, etc.)
  - Reading and writing structured data to/from files
- Memory Management and Data Structures
  - Memory allocation functions (malloc, calloc, realloc)
  - Creating and managing linked lists
  - Stacks and queues using arrays and linked lists
  - Introduction to binary trees

- Advanced C Concepts
  - Function pointers
  - Preprocessor directives (#define, #include, etc.)
  - Enumerations and typedef
  - Command-line arguments
  - Error handling and debugging techniques
- C Standard Library
  - Overview of the C Standard Library (stdio.h, stdlib.h, string.h, etc.)
  - Working with standard functions
  - Custom library creation and usage
- Best Practices and Coding Standards
  - Writing clean and maintainable code
  - Code commenting and documentation
  - Debugging techniques and tools
  - Coding standards and style guides
- Practical Applications and Projects
  - Implementing real-world projects to apply C programming concepts
  - Building command-line utilities
  - File manipulation and data processing
  - Simple games or simulations

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Bonus Content

- Guest Lectures by Industry Professionals
- Mock Interviews and Resume Building Workshops
- Guidance on Building a Professional Portfolio
- Soft Skills Development: Communication, Teamwork, Problem-Solving
- Mid-Course Assessment to Gauge Understanding and Progress
- Job Interview Preparation and Mock Interview Sessions
- Assistance in Job Placement and Internships
- Access to Alumni Network and Industry Events

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Sample Mini Projects

- Student Gradebook - Build a program to manage a student gradebook. Users can input student names and their corresponding grades. The program should calculate and display the average grade, highest grade, and lowest grade.
- File Reader and Analyzer - Develop a program that reads text from a file, counts the number of words and characters, and displays the results. Users should be able to specify the file to analyze through command-line arguments.
- To-Do List - Build a to-do list program where users can add, remove, and mark tasks as completed. Tasks should be stored in memory using dynamic memory allocation (malloc and free).

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Sample Course Completion Certificate

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CERTIFICATE OF COMPLETION

HAS BEEN PRESENTED TO

CANDIDATE NAME

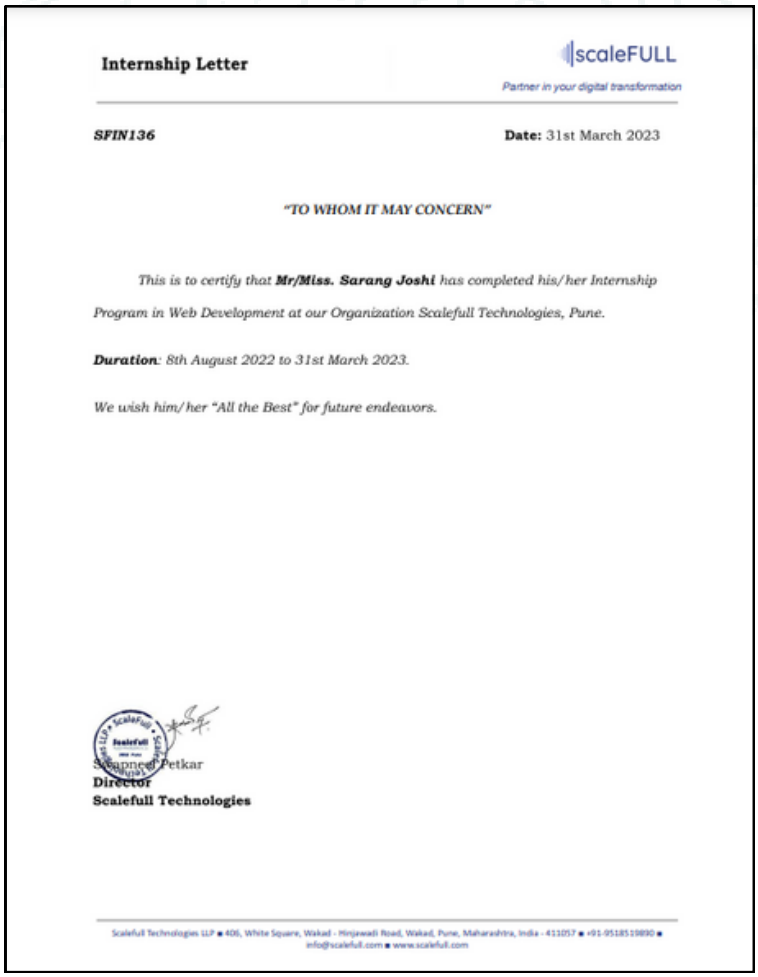
FOR SUCCESSFULLY COMPLETING THE "FULL STACK WEB DEVELOPMENT - MERN STACK" COURSE AT WISDOM SPROUTS - IT TRAINING HUB, PUNE. FROM "2ND JANUARY 2023 "TO "31ST MARCH 2023" HIS/ HER PERFORMANCE HAS BEEN SATISFACTORY SO AS TO FULFILL THE REQUIREMENTS FOR SUCCESSFUL COMPLETION OF THE TRAINING.

IN TESTIMONY THEREOF, THIS CERTIFICATE IS AWARDED ON THE 31ST OF MARCH, 2023.

MR. SWAPNEEL PETKAR
MANAGING DIRECTOR, WISDOM SPROUTS

WS230327

Sample Internship Completion Letter



Internship Letter

scaleFULL
Partner in your digital transformation

SFIN136 **Date:** 31st March 2023

"TO WHOM IT MAY CONCERN"

This is to certify that ***Mr/Miss. Sarang Joshi*** *has completed his/her Internship Program in Web Development at our Organization Scalefull Technologies, Pune.*

Duration*: 8th August 2022 to 31st March 2023.*

We wish him/her "All the Best" for future endeavors.

Swapneel Petkar
Director
Scalefull Technologies

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Course Details		
1	Duration	30 days
2	Mode of Training	Offline/Online
3	Registration Fees	₹ 999

Register Here