C++ PROGRAMMING INTERNSHIP PROGRAM

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SkillNova

www.skillnovatech.in

WELCOME TO OUR INTERNSHIP PROGRAM

SKILL NOVA

- Kickstart Your C++ Programming Career
- Gain hands-on experience & build real-world projects
- Earn a valuable internship certificate

ABOUT US

SKILLNOVA

is a vibrant and diverse community that brings together individuals with similar objectives and ultimate goals. Our main focus is on creating opportunities that span various areas, including leadership development, learning, student engagement, and fostering shared interests.

We believe in the power of leadership and its ability to drive positive change. That's why we provide platforms and resources for our community members to develop their leadership skills. Through mentorship programs, workshops, and collaborative projects, we empower individuals to take on leadership roles and make a difference in their respective fields.

INSTRUCTIONS

UPDATE YOUR LINKEDIN PROFILES

FOR A WEB DEVELOPMENT INTERNSHIP, YOU WILL NEED TO

COMPLETE ANY THREE PROJECTS AT YOUR CONVENIENCE

FOR SUCCESSFUL COMPLETION OF THE INTERNSHIP.

MAINTAIN A SEPARATE GITHUB REPOSITORY

(NAME SKILLNOVA FOR ALL THE TASKS AND SHARE THE LINK

OF THE GITHUB REPO IN THE TASK SUBMISSION FORM .

(IT WILL BE GIVEN LATER THROUGH EMAIL).

YOU CAN REFER TO ONLINE RESOURCES SUCH AS GOOGLE SEARCH

AND READ TUTORIALS.

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SUBMISSION

A TASK SUBMISSION FORM will be shared later through email .
Till then please continue your task.
A video need to be created to showcase your work, demo of your effort .

The video can be hosted on LinkedIn for proof of your work and build credibility among your peers .
You can tag SkillNova in such post s.

Please add #SkillNova in each of your task video pos tings on LinkedIn, Additionally, you can al so add hashtags such as #internship #datascience. for more reach and visibility.

INTERNSHIP STRUCTURE

- Duration: 4 Weeks

- Mode: Online, Self-Paced

- Components: Weekly MCQs + Final Project

- Assessment: Complete all assignments & submit the projects

WEEKLY ASSIGNMENTS SCHEDULE

- Week 1: C++ Basics, OOP Concepts.

- Week 2: File Handling, Data Structures.

- Week 3: Advanced C++ (STL, Multithreading).

- Week 4: Game Development Basics.

WEEKLY PROJECTS SCHEDULE

- Week 1: Student Management System.

- Week 2: Tic-Tac-Toe Game.

- Week 3: Bank Management System.

- Week 4: Library Management System.

FINAL PROJECT SUBMISSION

- Choose three project from the given options
- Implement concepts learned during the internship
- Submit the project before the deadline

PROJECT 1: STUDENT MANAGEMENT SYSTEM

Tools:

- IDE: Code::Blocks, Dev C++, or Visual Studio.
- Libraries: C++ Standard Library.

Materials:

1. Tutorials:
   - C++ Basics
   - File Handling in C++
2. Tasks:
   - Create a console-based application to manage student records (add, view, update, delete).
   - Use file handling to store data.

Bonus Feature:

- Add a search functionality for student records.

PROJECT 2: TIC-TAC-TOE GAME

Tools:

- IDE: Code::Blocks, Dev C++, or Visual Studio.
- Libraries: C++ Standard Library.

Materials:

1. Tutorials:
   - C++ OOP Concepts
   - Game Development in C++
2. Tasks:
   - Create a 2-player Tic-Tac-Toe game.
   - Use a 2D array to represent the game board.

Bonus Feature:

- Add a single-player mode against the computer.

PROJECT 3: BANK MANAGEMENT SYSTEM

Tools:

- IDE: Code::Blocks, Dev C++, or Visual Studio.
- Libraries: C++ Standard Library.

Materials:

1. Tutorials:
   - C++ File Handling
   - C++ OOP Concepts
2. Tasks:
   - Create a console-based application to manage bank accounts (create, deposit, withdraw, view balance).
   - Use file handling to store account data.

Bonus Feature:

- Add a transaction history feature.

PROJECT 4: LIBRARY MANAGEMENT SYSTEM

Tools:

- IDE: Code::Blocks, Dev C++, or Visual Studio.
- Libraries: C++ Standard Library.

Materials:

1. Tutorials:
   - C++ OOP Concepts
   - File Handling in C++
2. Tasks:
   - Create a console-based application to manage books and users (add, view, update, delete).
   - Use file handling to store data.

Bonus Feature:

- Add a search functionality for books.

CERTIFICATE & COMPLETION

- Complete all assignments & submit your final project.
- Receive your internship certificate.
- Enhance your resume & boost your career.

CONTACT & SUPPORT

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