

# **RESUME MAKER**

**A PROJECT REPORT**

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# **ABSTRACT**

This project is a Resume Maker developed using the C programming language. It allows the user to input personal details, educational qualifications, skills, projects, experience, and achievements. The program then automatically generates a professionally formatted resume and saves it inside a text file (resume\_output.txt).

The project demonstrates real-world applications of C such as structures, functions, file handling, string handling, loops, modular programming, and header files. It provides an easy and user-friendly way to generate structured resumes directly from the terminal.

# **PROBLEM DEFINATION**

Many students and job seekers struggle to format a resume properly or do not have access to professional resume-building tools. Existing tools are either paid, complicated, or require internet access.

To solve this,I have designed a terminal-based C application that collects the necessary information and creates a clean, readable resume.

The project focuses on:

- Collecting personal and academic details
- Saving data using structures
- Reusing functions for modularity
- Writing formatted output into a file
- Providing quick and repeatable resume generation

This ensures a simple, offline, platform-independent method for anyone to generate a structured resume.

# **SYSTEM DESIGN**

## **Algorithm for resume.h**

1. Start
2. Define constants(MAX\_TEST,DATAFILE)
3. Define all resume structure with personal and resume fields.
4. Declare functions:
  - add\_resume():-add and save new resume
  - list\_resume():-show all resumes
  - view\_resume():-display resume by ID
  - edit\_resume():-edit email of a resume
  - delete\_resume():-remove resume by ID
  - export\_resume():-export resume to text file
  - wait\_for\_key():-pause program
- 5.Stop

## **Algorithm for main.c**

1. Start
2. Declare a variable choice for menu section.
3. Enter an infinite loop to display the main menu.
4. Show menu options:
  - Add Resume
  - List Resumes
  - View Resume
  - Edit Resume

- Delete Resume
  - Export Resume
  - Exit
5. Read user input (choice).
  6. Use switch(choice) to perform actions:
    - If choice = 1 → call add\_resume()
    - If choice = 2 → call list\_resumes()
    - If choice = 3 → call view\_resume()
    - If choice = 4 → call edit\_resume()
    - If choice = 5 → call delete\_resume()
    - If choice = 6 → call export\_resume()
    - If choice = 7 → exit program
    - Otherwise → print “Invalid choice”
  7. Call wait\_for\_key() to pause and allow the user to read the output.
  8. Loop back to show the main menu again.
  9. Stop

### Algorithm for resume.c

1. Start
2. Repeat menu
  - Display options: Add, List, View, Edit, Delete, Export, Exit
  - Read user choice

3. If choice=Add

- Read user details
- Assign next ID
- Save resume to file

4.If choice=List

- Read all resumes
- Display ID, Name, Email

5.If choice = View

- Ask for ID
- Search and display full resume details

6. If choice = Edit

- Ask for ID
- Update email in file

7.If choice = Delete

- Ask for ID
- Copy all except that ID into a new file
- Replace original file

8.If choice = Export

- Ask for ID
- Write resume content to a text file

9.If choice = Exit

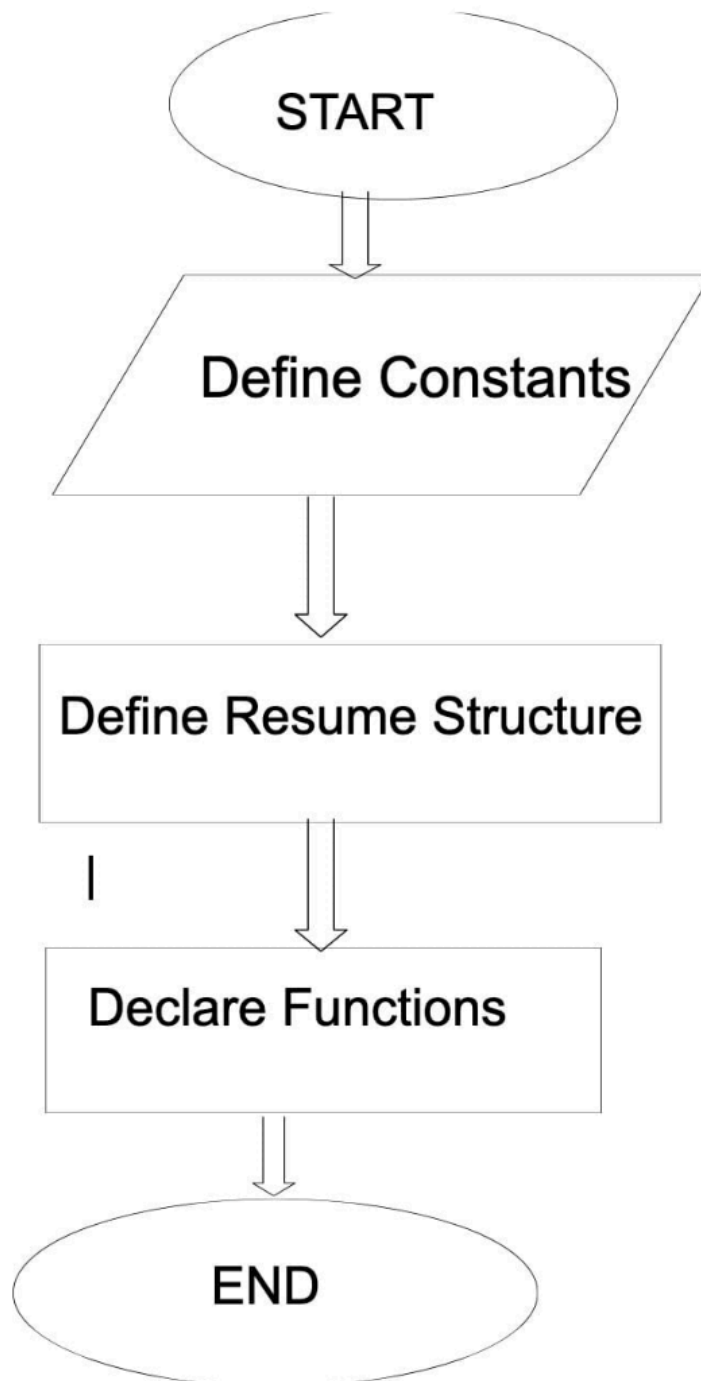
- Stop program

10.Otherwise

- Show “Invalid choice”

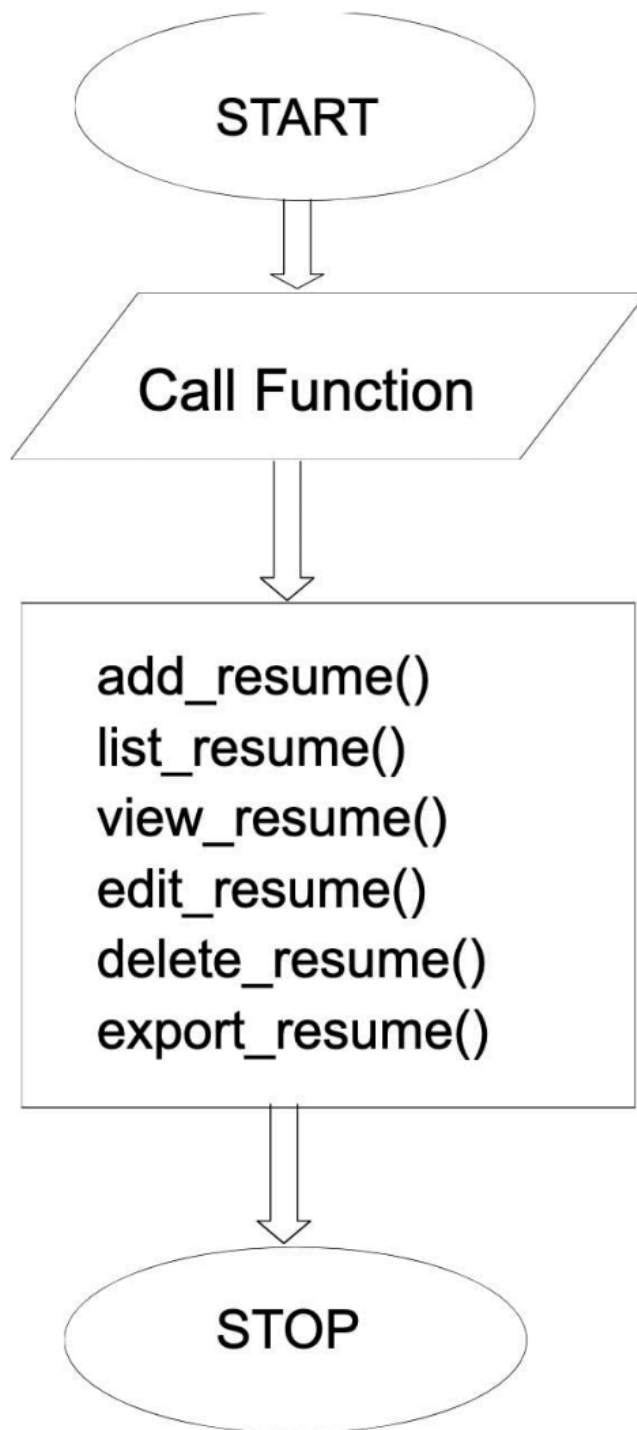
11.Stop

# Flowchart of resume.h





# Flowchart of main.c

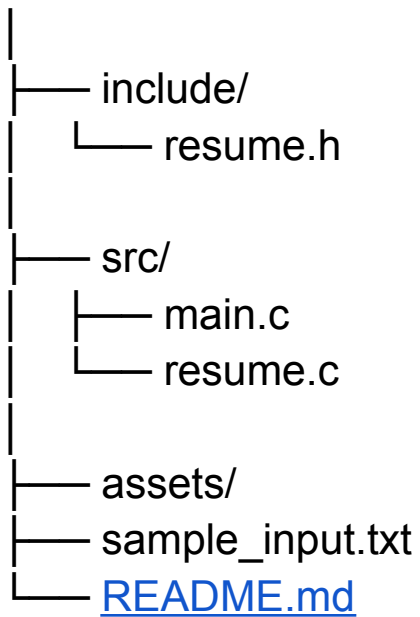


# IMPLEMENTATION DETAILS

This section explains how the resume maker is built with the use of some snippets.

## 1.Project Structure

ResumeMaker/



## 2.Data Storage Method

All resumes are stored in a binary file:

≡ resumes.dat

### 3. Use of Structures

The program uses structures in a simple way to store the record.

```
9 //creating a structure to store all details entered by user
10 typedef struct {
11     int id; //Unique ID assigned
12
13     //Personal Information
14     char name[100];
15     char email[100];
16     char phone[50];
17     char address[200];
18
19     //Resume Content
20     char objective[MAX_TEST]; //User's carrer objective
21     char skills[MAX_TEST]; //User's skills
22     char education[MAX_TEST]; // Education history of user
23     char experience[MAX_TEST]; //Work or internship experience of user
24     char certification[MAX_TEST]; //Extra certifications
25     char hobbies[MAX_TEST]; //Hobbies or interests
26     char languages[MAX_TEST]; //Languages known
27 } Resume;
```

### 4. Resume Selection Menu

The main menu provides options:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

● vishnugupta@hansika RESUME MAKER % make
gcc src/main.c src/resume.c -Iinclude -o resume
○ vishnugupta@hansika RESUME MAKER % ./resume

=== Resume Maker ===
1. Add Resume
2. List Resumes
3. View Resume
4. Edit Resume
5. Delete Resume
6. Export Resume
7. Exit
Choose: █
```

## **5.Input Handling Logic**

- read\_line():-Removes newline characters
- getchar():-Clears leftover buffer
- fgets():-String input
- 

## **6.Program Flow Logic**

START → Display Menu → Get Choice → Perform Operation →  
Pause → Return to Menu → EXIT  
Program will run continuously until user selects Exit.

## **7.Error Handling**

The program checks File not found

```
Choose: 5
```

```
Enter ID to delete: 1  
ID not found.
```

```
Press Enter to continue..█
```

# RESULTS

## How it works

The menu runs in a while(1) infinite loop. Switch-case block is used to call the correct function.

- add\_resume()

```
Choose: 1

Enter full name: riya
Email: r@gmail.com
Phone: 2345678900
Address: delhi
Career Objective: enhance skills
Skills (comma separated): c,dsa,python
Education: btech cse,upes
Experience: intern at ibm
Certifications: aws,google cloud
Hobbies: swimming , cooking
Languages: hindi,english

Resume saved successfully.

Press Enter to continue..
```

- list\_resume()

```
Choose: 2

Stored Resumes:
-----
ID: 2 | Priya Sharma | priya2@gmail.com
ID: 2 | riya | r@gmail.com

Press Enter to continue..
```

- view\_resume()

```
Choose: 3

Enter resume ID: 2

----- RESUME 2 -----
Name: Priya Sharma
Email: priya2@gmail.com
Phone: 9876543210
Address: New Delhi, India

Objective:
To secure a responsible position in a reputable organization and enhance my skills.

Skills:
C,C++,JAVA,CSS,DSA,Communication,Leadership.

Experience:
Intern at Microsoft(June 2024 - July 2024)
Certification:
Python Programming Certification,AWS Certification.
Hobbies:
Reading,Cooking,Swimming,Painting

Languages:
English,Hindi

Press Enter to continue..
```

- edit\_resume()

```
Choose: 4

Enter ID to update email: 2
Current Email: priya2@gmail.com
New Email: priya@gmail.com
Email Updated.

Press Enter to continue..
```

- delete\_resume()

```
Choose: 5

Enter ID to delete: 1
ID not found.

Press Enter to continue..
```

- export\_resume()

```
77 EXEC
Choose: 6

Export which ID? 2
Exported to resume_export.txt

Press Enter to continue..
```

- exit\_resume()

```
=== Resume Maker ===
1. Add Resume
2. List Resumes
3. View Resume
4. Edit Resume
5. Delete Resume
6. Export Resume
7. Exit
Choose: 7
○ vishnugupta@hansika RESUME MAKER %
```

## **CONCLUSION**

The Resume Maker project demonstrates how C programming can be used to build a functional, menu-driven application for managing multiple resumes efficiently. Throughout the development of this system, important programming concepts such as file handling, structures, dynamic input handling, and menu control flow were implemented in a practical way.

The project provides users with a simple interface to create, view, edit, delete, and export resumes. By organizing the program into separate files(main.c,resume.c and resume.h), the system becomes easier to maintain, extend, and understand. The use of structures ensures that all resume components stay organized, and the overall program flow allows smooth interaction with different operations.

Overall, this project not only fulfills the objective of creating a resume management application but also strengthens knowledge of C programming concepts, logical structuring, and real-world problem solving.



## **Future Work**

1. Adding More Resume Templates
2. Support for PDF or DOCX Export
3. Graphical User Interface (GUI)
4. Integration With Resume-Building Suggestions
5. Enhanced Error Handling

## **REFERENCES**

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2. Let Us C
3. Class PPTs
4. Github