

# C++, MFC Developer

## THANUJ

SOFTWARE ENGINEER

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To be associated with a progressive organization that provides me the scope to apply my knowledge and skills and involve myself as a part of the team that dynamically works towards the growth of the organization.

### PROFESSIONAL EXPERIENCE

- A result oriented professional with 3 years of experience in development of **C++11/STL Containers and Algorithms, Multithreading, Win32 API, MFC.**
- In-depth knowledge of application development methodologies like **OOPS Concepts** [Abstraction, Inheritance, Encapsulation, Polymorphisms].
- Having experience in C++ technical concepts like **Type castings, Smart pointers, Pointer/Ref types, Deep Copying, Shallow Copying, Virtual destructors, Mutable, const keywords.**
- Hands on experience on **Win32 DLL's & MFC DLL's** using Static linking and Dynamic linking.
- Hands on experience on **MFC Sub-classing, Custom Controls such as List Controls, Static Controls.**
- Having good experience in Front end design UI's using **Modal/Modeless dialog boxes** on Windows using Visual C++.
- Experience in developing Single Document Interfaces (SDI) and Multiple Document Interfaces (MDI) Applications using MFC Doc/View Architecture.
- Extensive knowledge in **Windows Message Map architecture** and Message handling mechanism in **Win32** and Microsoft Foundation Class (MFC) library.
- Good understanding of **Dependency Injection** and **SOLID Principles.**
  - Experience in writing Visual C++ code in multi-threaded environment with **Worker and User Interface threads.**
    - Hands-on experience in writing Generic Code using **Template Functions and Template Classes, and using STL Containers like Vector, List, Stack, Queue and Associate Containers Map, Multimap, Set and Multiset.**
      - Having experience on Multi-threaded Applications using **Synchronization**

### EDUCATION

#### BACHELOR OF TECHNOLOGY-IT

- B. TECH from **Lakireddy Balireddy College of Engineering (JNTUK)** IN 2019 with an Aggregate of 6.66 CGPA.

#### 12<sup>TH</sup>

- Intermediate with 80.6% from Narayana Jr College in 2015.

#### 10<sup>TH</sup>

- SSC with 9.0 CGPA from Swathi Model School in 2013, AP.

### AREA OF EXPERTIZE

- OOPS Concepts.
- Multithreading.
- Design Patterns.
- STL Algorithms.
- SOLID Principles.

### TECHNICAL SKILLS

#### Languages

C, C++.

#### LIBRARIES

MFC, Win32 API.

#### Operating Systems

Windows 8, 10.

#### Source Control Tool

GIT, TORTISE

#### Database

SQL Server 2012.

#### Development Tool

Visual Studio 2015, 2019.

## WORK EXPERIENCE

- Since **Dec 2021** to till date working as **Software Engineer 2** in **ORACLE Cerner, Bangalore.**

## PROJECT DETAILS

**PROJECT 1:** Cardiology ECG Management **Organization 1:** ORACLE Cerner.

**PROJECT 2:** Payment Solutions (POS) **Organization 2:** Integrated Digital Info Services

**Role** : Software Engineer 2 **Duration:** Dec 2021 to till date in ORACLE

Cerner, Aug 2019 to Dec 2021 in Integrated Digital Info Services Pvt Ltd.

**Environment:** C, C++, Win32 API, MFC, STL, Visual Studio 2008/12, SQL Server 2008, GIT, Jira.

### PROJECT-1 DESCRIPTION:

**Cardiology ECG Management** is a health information technology (HIT) which process, analyze and maintain the records of various types of cardiovascular health records, heart diseases, diagnostics such as ECG 12 lead, ECHO, Stress ECG and many more modalities in which helps to draw the patterns and to find out efficient solutions. Powerchart is the application in which all these things take place. So, mostly we work on application end maintenance such as bug fixing, optimizing, passivity, application module enhancements, etcetera.

### PROJECT-2 DESCRIPTION:

**Payment Solutions (POS)** which provides POS applications to the Retail, Hospitality and Restaurants. Payment Solutions process multiple transaction types and card types. This project support US based EBT and Smart WIC transactions with different hosts and devices.

### ROLES AND RESPONSIBILITIES

- I developed an API for an application called Powerchart which is one of the Cerner product in which I developed Modal Dialog Boxes to resolve the conflict of Modeless Dialog Boxes which are raising a red flag in patients and physicians end.
- I resolved many defects and crashes in our applications which were reported by clients and inhouse associates and testers using debugging technics and C++ concepts.
- Included an Api in. Vcxproj file of all the C++ modules in our repository which in return helps to all the other associates in our team to build the projects directly once its cloned, without adding dependency paths and any further configurations.
- Developed many constructors and modified the existing ones to optimize the code. Modified by declaring all the variables from constructor body to Initialization list.
- I developed business objects by using OOPS concepts such as abstraction, encapsulation, inheritance and polymorphism, and followed solid principles.
- Currently working on **CVNextGen**, which is completely an enhancement project where I am

working on passivity for all the modules and workflows

- **MFC Modal/Modeless dialog screens** designs for dynamic message boxes which were used in the Warning Message generating APIs
- Customized rebate process GUI screens, and updated rebate condition records as per the client's specification. Tested rebate condition records validation.
- Bug fixing, Build and Release, EP Packaging and Re-Packaging, both White-Box and Black-box testing for engineering and release pipe-lines.
- Involved in code reviews, Design reviews, Design planning, Quarter planning, Agile Scrum, Back-log grooming for sprint health, Retrospective to analyze past sprint perks and back steps.



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