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Education

2020-(EEE)

jawaharlal Nehru Technologiacl University, Kakinada.

NRI Institute of Technology,
At agiripalli,Vijayawada, with an Aggregate of 65%.

2016-(MPC)

Board of Intermediate, AP

Narayana Junior colllege,
Vijayawada,with an Aggregate of 90%.

2013 - 2014

SSC, AP

Rishi Vidyanekethan High School,
Vijayawada, with an Aggregate of 85%.

skills

- Languages:
    C, C++, Visual C++
- Technologies:
    Win32, MFC, DLL, WinSock API, COM
- Libraries :
    Win32, MFC.
- Database:
    Microsoft SQL Server 2008
- Development Tool:
    Visual Studio 2015-19,Case Tracker, ECG Simulator
- Source Control Tools :
    Tortoise SVN
- Platforms :
    Windows 7,Windows XP

LAKSHMI NARASIMHA

C++ SOFTWARDEVELOPER

Career Objective

Keenly interested in challenging and creative assignments, which will enable me to sharpen my skills and make me competent enough to excel in the field of software design and development of software systems while utilizing my experience in developing application software, Special interest in Object Oriented Techniques.

Professional Summary

- Having 2.5 Years of experience in developing Windows applications using Microsoft Visual Studio with C, C++, VC++, Win32, and MFC ,COM.

- Having experience in C++ technical concepts like type castings, smart pointers, Pointer/Ref types, Deep Copying, Shallow Copying, Virtual destructors, Mutable, const, volatile and auto keywords.

- In-depth knowledge of application development methodologies like Object Oriented Concepts [OOPs].

- Very good exposure in writing OOPS concepts like Abstraction, Inheritance, Compile Time/Run-Time Polymorphisms.

- Having experience on Multi-threaded Applications such as Synchronization Objects, User Interface Thread and Worker Thread.

- Worked with Inter Process Communication using Windows IPC, Sockets and Component Object Model Inproc/ Outproc servers.

- Experience in developing Windows OS based GUI applications using Modal/Modeless dialog boxes and Doc/View architecture based SDI/MDI applications.

- Experience on MFC Sub- classing, MFC Custom Controls such as List Controls, Static Controls.

- Extensive knowledge in Windows Message Map .

PROJECT #2

Project Details

Project	:	Subsystem SIG
Client	:	GE Health Care.
Duration	:	January 2021 to till date.
Position	:	Software Developer
Team Size	:	12
Environment	:	C, C++, VC++, Win32 API, MFC,COM, Multithreading, Visual Studio 2015-19, Windows XP, SQL Server 2008, Tortoise SVN, Case Tracker

Project Description

Cardio Soft provides physicians with the most reliable information available to support cardiac diagnostic decisions. The subsystem SIG has an interface to the data acquisition (ADC) driver and interface to application software. The subsystem SIG provides functions for signal preprocessing in real time. The subsystem has the interface module to application software for control of SIG. SIG sets the Line Filter 50Hz and 60Hz for 500Hz sampling rate and Musle filter for 20Hz/40Hz/100Hz. Subsystem provides Baseline shift correction with cubic splines(Anti drift System).

Features

- Customized high pass filter 0.01hz/0.05Hz/1Hz.
- Detection of pace pulses in the 500Hz ECG.
- Pace enhance
- Calculation of electrode status(OK, Noise, Dropped)
- 50Hz/60Hz compensation (line filter).
- Noise filter 20Hz/40Hz/100Hz
- Calculating leads from electrodes.
- QRS trigger and HR Calculation.
- Provides 10s ECG blocks.

Roles and Responsibilities

- Analysis of the specifications provided by the clients.
- Implemented runtime polymorphism objects CECGDisplay, CRestingECGDisplay, CArhythmiaECGDisplay, CStressECGDisplay.
- Legacy File-Manager module updated to send the patient details to central system (MUSE) using REST API. File-Manager Dialog screens updated as per the specification to support new enhancements.
- Multi-threaded (MFC Worker threads) scenario implemented in Heart Rhythm for Resting and Stress ECG.
- Base line correction, which is called Anti Drift System (ADS) implemented in Resting ECG, for MAC 1600.

PROJECT #1

Project Details

Project : Vectors Analytics
Client : Andrew Davidson & CO, New York.
Duration : June 2020 to December 2020.
Position : Associative Software Developer.
Team Size : 10
Environment : C, C++, VC++, Win32 API, MFC, COM, Multithreading, Visual Studio 2015-19, Windows XP, SQL Server 2008, Tortoise SVN, Case Tracker.

Project Description

The VECTORS Analytics is a suite of Prepayment, Credit and Valuation Solutions.

Prepayment Model:

VECTORS Prepayment Models calculate a vector of monthly prepayment speeds for agency, non-agency prime and sub-prime loans/pools for fixed and adjustable-rate mortgages. Model factors include housing turnover, interest rate refinancing, cash-out refinancing (due to home price appreciation), credit cure, aging, seasonality, spread-at-origination, burnout and yield curve spread. The models use enhanced loan level details to adjust prepayment speeds based on the characteristics of the loan. The agency model considers loan size, original loan-to-value, credit score, regional home price indices, geographic location, property type, loan purpose and occupancy type to adjust speeds.

Credit Model:

- The Loan Dynamics Model gives you useful information about how loans will perform by tracking borrower behavior over the lifetime of a loan. Using historical data and studies of how people actually make their monthly payments, we accurately forecast how borrowers are likely to behave based on strong economic rationale

- The Loan Dynamics Model can utilize loan or pool level data. When loan level data is used, every single loan that backs the security is analyzed, resulting in more accurate forecasts.

- For issuers and investors, our model forecasts key investor performance metrics such as CPR (prepayment), CDR (default), 60+ delinquency and loss severity, given loan characteristics and a user-driven scenario for interest rate and house price indices. Our open architecture gives you the flexibility to tune the model according to parameters you set.

- The Loan Dynamics Model goes beyond the traditional "two-state" competing risks model that forecasts only prepayments and defaults, to include forecasts for a number of loan transitions, including 60+delinquencies to account for the impact on bond triggers. We have condensed the number of transitions to those which have sound economic rationale and the greatest impact on investment performance.

Valuation Model:

- VECTORS valuation models integrate prepayment and credit models to provide the analytical platform to make better hedging and risk management decisions. VM enables you to combine the Intex capital structure data and Loan Performance loan-level information so that you can easily project out losses for distressed ABS securities and see how those losses will impact the capital structure from the bottom up and what the prices of these "interest only" distressed securities will be over time.

Roles & Responsibilities:

- Developing the application and do the unit testing.
- Coding and debugging of MFC [regular/extension] Dll's.
- Writing document and view object using MFC library.
- Debugging and finding errors and bug fixing, Trouble shooting using log files.
- Involved in the UI design of dialog boxes and custom controls
- Customization of MFC GUI controls and sub classing
- Involved in software build release activities
- Designing of GUI Modal/Modeless dialog boxes and developing GUI using MFC Classes.
- Working with Menus and Accelerator Resources and Document templates.
- Implemented risk analysis in this project.
- Perform the unit testing whether it meets to the requirement or not.

REDDY LAKSHMI NARASIMHA