APARNA

SOFTWARE ENGINEER • HYDERABAD, INDIA 📞 +917780617101

° DETAILS °

Hyderabad
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° SKILLS °

C

C++

VC++

GitHub

win32

MFC

STL

DLL

SQL server 2008/2012

Windows 10

👤 PROFILE

- I have 3.6+ Years of work experience in developing Windows applications using Microsoft Visual Studio with **C, C++, VC++, Win32, MFC, Multithreading and Socket Programming**
- Professional programming skills in C/C++ and implementing the OOPS concepts like **Abstraction, Encapsulation, Inheritance, Compile Time/Run-Time polymorphisms**
- Good analytical and problem solving skills and ability to think about a problem and to solve it through my **Debugging and Troubleshooting** skills
- Good knowledge on creating threads using **Multithreading** and Synchronization objects (Mutex, Critical Section and Event) and creating User Interface and Worker threads.
- Having basic knowledge on implementing Design Patterns like **Singleton, Observer,Bridge** and knowledge on writing algorithms like Binary search and Quick sort
- Hands on experience in developing **Windows OS based GUI** applications using **Modal/Modeless** dialog boxes and **MFC** Doc/View Architecture based **SDI/MDI applications**
- Worked with Inter Process Communication using **Windows IPC,** Sockets
- Good knowledge on **DLL's** like Regular, **Extension DLLs** and Implicit/Explicit **linking of DLL's**
- Good understanding in Windows Message Map Architecture and Message Handling Mechanism in **Win32** and **Microsoft Foundation Class (MFC)**
- Good knowledge on **Agile Methodology** on Application development and participated in various projects stages from conception to implementation and maintenance

💼 EMPLOYMENT HISTORY

Software Engineer at Winsol Techno services Pvt Ltd, Hyderabad
January 2019 — Present

🎓 EDUCATION

B.Tech (ECE) , Jaya Institute of Technology & science for women, Hanumakonda
July 2010 — May 2014

75%

Intermediate (MPC), Pragna Junior College, Narsampet
June 2008 — March 2010

88.2%

SSC, Bharathi Vidya Mandir School, Kodad
June 2007 — April 2008

80%

★ PROJECT DETAILS

Project #1

Project name: BROWSER

Client: D+H Financial technologies, New York

Organization: Winsol Techno services Pvt Ltd

Environment: C/C++, VC++, MFC, COM, Multi-threading, Socket

Programming, Bash(wsl), PowerShell, Wireshark/Fiddler, WinDbg, Visual Studio, AWS, Assembly, Radare2, Docker, Visual Studio 2017.

Framework: Chromium Embedded Framework (CEF), ChromeNet, Win32 API, Microsoft Foundation Class (MFC).

Project Description:

- Starting in D+H Technologies 2010.2, we bundle our own custom browser for hosting web-based applications. The custom browser is based on the Chromium project, which is the open-source project that Google Chrome is based on
- We expose our browser as an assembly that can be embedded by Workstation components. The browser can be configured using the component library so web-based applications can be configured in a similar fashion as other Workstation components

Features Implemented:

- Customizable context menu and toolbars
- Embeddable FDSChart objects
- RunApp calls
- D+H Technologies cache requests
- Realtime data feed
- Built-in authentication to D+H Technologies backend services
- Debugging tools suite

Modules Involved:

Portfolio channel support:

- As of 2012.5, the Browser supports Portfolio Channels, which means Browser applications can both send and receive Portfolio Channel Broadcasts. The API is composed of a property, FDS. controller.portfolio.events.onSetActivePortfolios and a method FDS.controller.portfolio.setPortfolios

Roles and Responsibilities:

- Managing and coordinating with various teams and tracking issues/bugs using in-house tracking solution
- Working on open source project Chromium Embedded Framework (CEF) and in-house projects. Designed the CefBuild automation project from scratch leveraging various AWS services
- Using open source chromium network stack in our project with no documentation. Packet analysis using Wireshark and Fiddler for tracing various network issues

Project #2

Project name: Credit path

Client: D+H Financial technologies, New York

Team size: 9

Organization: Winsol Techno services Pvt Ltd

Environment: C/C++, VC++, MFC, COM, Multi-threading, Windows 7, Visual Studio 2008, SQL Server2008, Tortoise SVN

Framework: Win32 API, Microsoft Foundation Class (MFC).

Project Description:

- Credit Path is a credit lifecycle technology platform for Commercial Real Estate, Commercial & Industrial Lending, Small Business Lending, Consumer Lending and Equipment Finance. This adaptable platform is part of an integrated software solution that incorporates robust business intelligence into an enterprise-class technology
- Credit Path offers a comprehensive approach to the credit management lifecycle that drives efficiencies and mitigates risk. With Credit Path, credit approval managers can optimize their credit operations to do more of the right kind of business with better risk mitigation and a better experience for their customers

Features Implemented:

- Comprehensive CRE Collateral Data Capture, Management, Monitoring and Analysis
- Loan to Value, Net Operating Income, Stress Test Scenarios
- Loan to Value, Capitalization Scenario Analysis.
- Lien and Tax Position Management
- Collateral Valuation Management

Modules Involved:

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Products, Rates & Pricing # 4:

- Configure loan and lease product catalog, assign rate tables and track rates used on products, define tiered rate pricing based on covenant performance

Collateral Management #3:

- Configure a collateral catalog with templates to facilitate data capture needs by collateral type.
- Record and manage lien positions and valuations over time.

Deal Structuring #2:

- Structure and submit credit requests with complexity varying from a single lending or leasing product to a master request with multiple syndicated products

Business Rules & Validations #1:

- Create and process business rules and other data validation to show messages, send notifications, route work, change statuses or other data, lock deals, etc.

Roles and Responsibilities:

- Developed C programs in the Windows environment to implement interest rate models and to provide flexible interfaces to trading systems.
- Involved in legacy system enhancements to automatically run daily risk utilizing Credit Path, and archive in SQL database.
- Developed various GUI screens using MFC modal/modeless, and C++.
- Analysed liquidity events (index review); Developed back testing software in C/C++.
- Developed LTV (Loan to Value) model using Hull-White dynamic, Built C++ library of generics and developed pricing tools for Callable Bond and other interest rate derivatives.