



Akhileswar

SOFTWARE DEVELOPER

ABOUT ME

As a Software developer to work in an Organization in close Co-operation with my peers and seniors, with the intention of enhancing my knowledge and simultaneously contributing and updating my skills, Attributing to success profile of my company and myself.

EDUCATION

2016-2020

Bachelor Of Technology - C S E

- Rajeev Gandhi Memorial College Of Engineering & Technology

2014 - 2016

Intermediate

- Sri Chaitanya Junior College

2013-2014

S S C

- Honey High School

TOOLS

- Visual Studio 2019
- SQL Server 2016
- Git, GitHub
- VSCode

TECHNOLOGIES

- C++ 11/14
- VC++
- MFC
- STL
- Win32
- Go Lang

EXPERIENCE

Since Aug 2020 to Till date

As Software Developer in

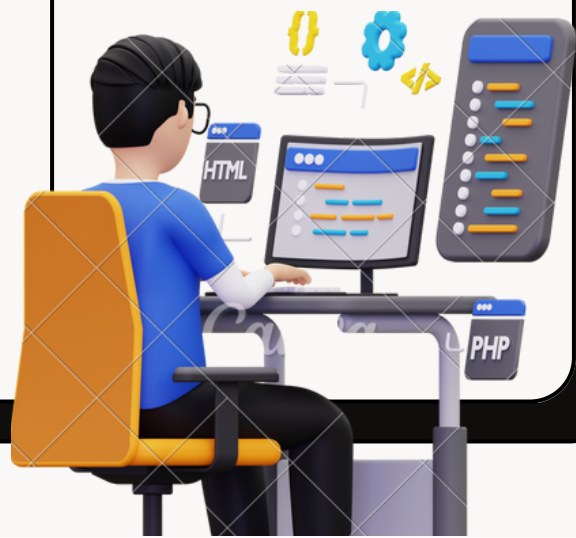
DELLUX TECHNOLOGIES PVT LTD

CONTACT

📍 Markapur, Andhra Pradesh

☎ +91 9059542298

✉ reddyakhileswar43@gmail.com





PROFESSIONAL SUMMARY

- 2.10 years of work experience as a Software Developer in **C++11, STL Containers (Vector, List, Set, Map)** and GUI Programming using **Microsoft Foundation Class Library (MFC)**.
- Experience across various technologies such as C++ 11 and **MFC Document/View Architecture**.
- Hands-on experience in MFC Control Customization, **Modal/Modeless Dialog Box GUI Coding**.
- Hands-on experience in developing **DLL's** (Regular and Extension) and DLL (In proc Server) Involved in Managed C++ (C++/CLI), Marshalling in **Managed** and **Un-Managed** Environment.
- Hands-on experience in **Multi-Threading** and **Synchronization**.
- Good Knowledge on **MFC Worker and UI Threads**.
- Hands-on experience in using **STL Containers (Sequential, Associative, and Adaptors)** and **Algorithms**.
- Hands-On Experience in coding using **C++ 11, STL Containers, Multi-threading** and **synchronization objects (lock, mutex, lock_guard, condition_variable)**.
- Good knowledge in developing backend software using **C++11**, and memory management using **smart pointers** like **unique_ptr, shared_ptr** and **weak_ptr**.
- Good knowledge in design patterns - **singleton, observer, factory**, and software architectural patterns and **Dependency Injection**.



PROJECT DETAILS

PROJECT NAME :

The Aladdin Enterprise Investment System

Black Rock, New York

DESCRIPTION

- The Aladdin® Enterprise Investment System is a suite of products consists of Trade ALO, Portfolio Administration and Risk Analysis.
- A desktop and network-based Distributed Processing System, this database- driven Enterprise System can be scaled to meet the needs of small hedge funds as well as major market dealers.
- Aladdin® is a versatile and easy to use tool for both front office and middle office functions.
- The Aladdin® solution is a comprehensive Microsoft Technology (MFC-Doc/View)-based application for valuing, and managing risk of structured finance products.
- Its underlying industry standard models are powered by the state-of-the-art high performance BlackRock analytics and it is designed to integrate seamlessly into BlackRock's database and cash flow engine. Aladdin® runs using a user provided loan level prepay model, a loan level loss model as well as a custom interest rate generator Integration of Prepay, Loss, and Severity models at custom collateral grouping levels.



PROJECT DETAILS

Roles and Responsibilities

- Developed interest rate model using Hull-White dynamic, Built C++ library of generics and developed pricing tools for Callable Bond and other interest rate derivatives.
- Developed C++ high dimensional robust portfolio optimization engine with STL algorithms/data structure.
- Analyzed liquidity events (index review) Developed back-testing software in C/C++.
- Examined a duration-hedged portfolio's interest rate exposure using Principal Component Analysis.
- Calculated Option-Adjusted Spread for an MBS by generating 500 paths for 1mth LIBOR forwards and interpolating the prepayment speeds with Bloomberg's PSA Forecast.
- Generating risk analytics reports for portfolio managers on fixed income securities and equities in more than 50 portfolios.
- Implemented Managed C++ Assembly to carry out marshalling, where we need to integrate legacy C++ application.
- Configured cloud-watch events rule for Guard Duty to send custom SNS notifications for Un Authorized access to EC2/Torip Caller.
- Good knowledge in GO programming various concepts like gotypes, arrays and slices, functions, receiver functions, go-routines and channels.
- Good knowledge in writing UINT test cases using Google test framework and UINT testing in Go language

AKHILESWAR