**S.SUBHAN**

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**CAREER OBJECTIVE:-**

To be in a position in a result oriented company that seeks an ambitious and career conscious person where acquired knowledge and skills gained during my professional experience will be utilized towards continuous growth and development of the organization.

**TECHNICAL SUMMARY:-**

* 2+ Years of IT Experience in application and product development using **C++,VC++,MFC and WIN32**
* Good knowledge in **OOPS Concepts**.
* Solid experience in IT industry as a software engineer in providing solutions using **Win32 SDK, MFC**
* Participated in various projects at various stages from conception to implementation and maintenance.
* Good exposure in structured finance and fixed income securities (MBS valuation and Risk analysis).
* Basic knowledge of production environment debugging and trouble shooting.
* Basic knowledge of design patterns (Singleton Design Pattern).
* Extensive knowledge of developing GUI **MFC** application.
* Experience in Finance Domain.
* Expertise in front end design on windows using Visual C++
* Good understanding of Object-Oriented Software Development methodologies like Agile and Waterfall model.

**TECHNICAL SKILLS:-**

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| --- | --- |
| **Programming Languages** | C, C++, VC++ |
| **Technologies** | MFC and Win32 SDK |
| **Software**  **Development Tools** | Team Foundation Server, Visual Studio 2019, Visual studio debugger and JIRA. |
| **Database** | SQL Server 2008 |
| **Platforms** | Windows Family. |

**EDUCATION:-**

* B.Tech graduation from JNTU Antapur, with an aggregate of 64%in the year 2012-2019.
* Intermediate from the Board of Intermediate A.P with an aggregate of 68% in the year 2012.
* Completed S.S.C from the Board of S.S.C of Andhra Pradesh with 68% in the year 2010.

**EMPLOYMENT HISTROY:-**

* Working as a **Software Engineer** in **SENPRO Technologies Pvt Ltd**. Chennai from Nov 2019 to till date.

**PROFESSIONAL EXPERIENCE:-**

|  |  |
| --- | --- |
| **Project** | **Global Banking and Securities Transactions Syn~Custody** |
| **Client** | **GBST** |
| **Role** | Software developer |
| **Duration** | Oct 2011 to till date |
| **Team Size** | 12 |
| **Environment** | C++, VC++, Visual Studio 2019, SQL Server 2008, TFS, JIRA |

# Project Name: GBST

**GBST** is a comprehensive product. It meets all the business needs of a custodian including settlements processing, S.W.I.F.T. messaging, corporate actions processing, client billing, management and regulatory reporting. Syn~Custody is highly configurable allowing the sub-custodian to seamlessly integrate into the global custodian networks.

**Syn~Custody** has been developed with the latest technology and makes use of client/server architecture. An open architecture allows it to easily interface with existing host systems. The system handles very large trade volumes efficiently and scales up to support a large number of users. There are no lengthy end of day batches. A powerful Security Management System controls access to the software and all user activity is logged.

A unique user interface allows clients to view their positions and trade status via the Internet. The module also provides on-line reporting and trade capture. This is a great efficiency tool for the custodians and their clients.

**Syn~Custody comprises of the following modules:**

* CORE
* MESSAGINGhttp://www.sectech.com/images/spacer100.gif
* CORPORATE ACTIONS
* CERTIFICATE MANAGEMENT
* BILLING
* INTERNET INTERFACE
* ADMINISTRATION

**CORE** is the main module of SYN~CUSTODY®. CORE dynamic link library maintains all market specific data like security profiles, brokers, exchange rates and prices. It also maintains the client profiles and safekeeping accounts.

All settlement related processing takes place in CORE. Client instructions are tracked in CORE from initiation to settlement (and registration). A complete audit trail is maintained for all user activity. CORE is central to all other modules as other modules derive their data from CORE. A comprehensive access security system ensures that access to each of the options is only given to users according to their roles in the organization.

**Cash Module**, allows cash (as well securities) statements to be sent to clients via SWIFT/Fax/Email, cash transactions resulting from settlements and corporate events to be automatically passed to the local banking system, plus ad-hoc cash entries manually entered into Custody2000® for transmission into the banking system. Dual control is maintained at all times for security. Additionally there are powerful query and reporting facilities built into the system.

**MESSAGING** module receives client instructions in S.W.I.F.T. format. CORE module automatically converts client instructions (S.W.I.F.T. format) into a usable format after validating the contents of the messages. Messages are auto-repaired by SYN~CUSTODY where possible. Manual repair functions are also available to the users.   
The module sends settlement confirmations and statements to clients via S.W.I.F.T. This module is highly configurable and messaging for each client can be scheduled. This module provides full support for a S.W.I.F.T. STP environment. All S.W.I.F.T. messages generated by Custody2000® can also be sent in the form of a fax or encrypted email automatically.

**Corporate Actions** module processes all types of corporate events relevant to the local market. The module processes both Equity and Debt instrument related corporate actions. The module supports automated event generation for bond interest and redemption, automated generation of entitlements for all events and events payment processing. The module sends event notification, entitlement notification, payments and pending corporate actions messages via S.W.I.F.T., fax or encrypted email to clients.

**BR Module** business rules are defined for each event in the system. The following types of events are available as standard event types:

* Shareholders meeting
* Cash Dividends
* Stock Dividends
* Optional Dividends
* Rights
* Bonus Issue
* Conversions
* Mergers
* Proxy Voting
* Stock Split
* Redemption
* Interest Payment

**CERTIFICATE MANAGEMENT SYSTEM (CMS)** module is of Syn~Custodyrecords and keeps track of physical certificate movement to/from the vaults. Management controls have been built into the system to enforce separation of duties between the operations staff and those assigned to the vault.

Four transaction types are available:

1. VAULT IN - To record certificates coming into the vault.
2. TEMP OUT - to mark certificates temporarily out of registration (where re-registration is required after receipt of certificates).
3. TEMP RETURN - To record incoming certificates from registrars after registration.
4. VAULT OUT - To permanently remove certificates from the vault.

Maker/Checker functionality (dual control) ensures involvement of two people in each of the above-mentioned transaction types.

Powerful query options allow any certificates related data to be extracted for use by the vault staff / management. Query reports can also be used to assist in the vault count. A reconciliation report highlights differences between the positions in Core and the Certificate Management System.   
Query options allow the users to view vault transactions or certificate data. For example users can list all certificates that are due from registrars.

**BILLING** module calculates the fees due to the custodian bank. It maintains client fee structures for various types of services.   
  
The fee schedules can be set up for any number of service types. Standard services include transaction settlement (by transaction type), safekeeping of securities (by location and product type), credit utilization, amendments to instructions, message repair etc. Other user-defined services can be set-up. Fee schedules can be set up on a tiered or sliding scale basis.  
Invoices generated from this module are highly detailed, incorporating total asset value, number of transactions, charge in local and billing currency (where the billing currency is not the same as the local currency), details of the existing tariff, and a sub account by sub account breakdown of all assets held, their individual instrument valuations, and individual transactions per sub account (where a single client relationship consists of more than one trading account)  
Bills can be sent to clients via fax or encrypted email.

**Roles and responsibilities:**

* Developed **BI Objects** using OOPS Concepts, and Design Patterns Singleton, and Factory.
* Developed the ASP developers to call **register, renew, delete certificates.**
* Involved in the development of messaging engine which provides the end-user with a library of predefined MSG’s and the ability to create custom MSG’S with access to any data point within the system
* Involved in RULE module which allows users to define business rules to a trade, which can then be aggregated, viewed and reported on multiple levels
* Developed **MFC Custom Controls** for the reports of **BILLING** system module which allows end-users to create their own fields and track unlimited data within the application.
* Implemented **Default, Prepay/Loss, Severity Cashflow Scenarios using STL vector, and map** containers.
* Loan Admin Alerts implemented using Observer design pattern, while parsing the ramp files which contains rate resets and maturities.

**Place: Chennai. (S.Subhan)**