ANAND KUMAR

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Technical Summary:

- **4+ years** of experience in development of applications software using **Windows Applications and Object Oriented Techniques**.
- Professional programming skills in C/C++ and implementing the concepts like **Abstraction, Encapsulation, Inheritance, Compile Time/Run-Time Polymorphisms.**
- Involved in different projects at various levels from the beginning to implementation and maintenance.
- Experienced in writing **micro services** for windows platform using **REST**.
- Expertise in storing/accessing data by using **STANDARD TEMPLATE LIBRARY.**
- Good experience in implementing **OOPS** concepts at various stages of implementing a feature.
- Experience in applying **OOAD** concepts whenever required.
- Good knowledge on understanding design patterns in project architecture like **Singleton, Observer**.
- Involved in writing unit test cases and Having Good Knowledge in **Controls Customization** Using **C++.**
- Understanding of software architectural issues as they are implemented in **C++**.
- Having basic knowledge of **COM** component.
- 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 **AGILE** methodology on application development and participated in various projects stages from conception to implementation and maintenance.
- Hands on experience in **Worker Thread**, **User Interface Thread** and **Synchronization Objects**.

Education:

- **M.Tech** (Communication Systems) from **JNTU Ananthapur,** with an aggregate of **75%**.
- **B.Tech (**ECE**)** from **JNTU Ananthapur,** with an aggregate of **64.71%**.

Working Summary:

- Currently working as Senior software Developer at **Allianz Technology, Pune** since March-2021 to till date.

- Worked as a software Developer at **Deccan info systems Pvt.Ltd, Banglore** From Nov-2017 to Feb-2021.

Technical Skills:

Type of Skill	Description
Programming Languages	C, C++.
Technologies	UML, Design Patterns, STL.
RDBMS	SQL Server 2008.
Bug Tracker	Case Tracker.
Source Control Tools	GIT.
Framework (IDE/Utilities)	Visual Studio 2017.
Operating Systems	Windows 7,8,10.
Libraries	INTEX API.

PROJECTS:

Project #: 1   **: LIFE INSURANCE.**
Team Size   : 15.
Environment   : C/C++, ABS A3K FRAMEWORK, ANGULAR, VISUAL STUDIO 2017.

Project Description:

A life insurance policy is a contract between you and an insurance company. Its main purpose is to provide a financial benefit (which is generally income tax-free) to your loved ones after you die. This death benefit can help:

- Cover funeral expenses.
- Pay a mortgage.
- Supplement educational expenses.
- Replace lost income.
- Protect the value of an estate; and more Life insurance coverage to last a lifetime.

Allianz offers fixed index universal life (FIUL) insurance, a type of permanent insurance that offers a death benefit for as long as your policy remains in force typically that's the rest of your life, assuming you pay the proper premium payments. (The other type of insurance, term insurance provides a death benefit only for a specified period of time.

There are other kinds of permanent life insurance (such as whole life, universal life, and variable life) but only FIUL has this unique combination of benefits to help address a variety of common financial concerns.

- ➢ Protection: The death benefit to your beneficiaries is generally income tax-free.
- ➢ Accumulation potential: Your policy's accumulation value may earn interest based on an external index or a fixed interest option (both explained below).
- ➢ Tax deferral: Your policy's accumulation value grows tax-deferred.
- ➢ Flexibility. As long as your policy is properly funded, you can pay premiums when you want and access your available cash value through policy loans and withdrawals.

- ➢ 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 CreditPath, and archive in SQL database
- ➢ Involved in implementation of Config data library.
- ➢ Involved in bug fixes as well as enhancements to the existing project.
- ➢ Adding features according to the requirements of the client.
- ➢ Involved in meetings with functional team to understand the functional spec properly.

Project #: 2   **: TPOS (Point Of Sale) - Retail**
Team Size   : 8.
Environment   : C/C++, VC++, MFC, Managed C++ , Angular, REST API, NGINX

　　　　　　　VisualStudio2015.

Project Description:

A point-of-sale (POS) system is defined as the device used to complete a sales transaction and is a combination of POS software and hardware. The device can be anything from a computer, tablet, or even an iPad used to conduct sales.

Modern-day POS system offers much more than just transactions; they also help you streamline various aspects of managing your business. Advanced software also provides inventory tracking, item imports, menu building, staff management, data and sales reporting, customer management systems, and promotions management.

Modules involved:
Security:

Authentication we used Oauth based authentication where the authentication service sent a jwt token that had an expire time will be send with the entire incoming request from web to pos systems. POS systems had its own user store where they can validate the data being sent and responsible for generating the jwt token. The credentials sent to windows service will be in an encrypted format.

Communication: This module revolves around communicating to different REST servers across the software and we used REST interfaces to implement them and used NGINX as a web hosting service and to bypass proxy requests.

Configuration data update:

This involves updating configuration data even if the pos systems are in remote location by making trust among them using windows certificate management. On the MCC side we have a container service that stores all the connected pos systems and in each pos system we will be having an agent service that communicates with container service to update the data at pos configuration.

Roles and Responsibilities:

- Involved in implementing windows service to the rest applications.
- Created UI dialogs and form view dialogs on MFC for Config data for various products.
- Created property sheet that holds the properties of asset/device point.
- Implemented connecting multi node feature using C++/web hosting svcNginx.
- Involved in implementation of Config data library.
- Involved in bug fixes as well as enhancements to the existing project.
- Adding features according to the requirements of the client.
- Involved in meetings with functional team to understand the functional spec properly.

Pune   **Anand Kumar**