**Deepa Kumari**

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Software developer with an overall experience of 9.5 years working with Saxo Bank. Primary Expertise in C/C++ with C++11/14 experience on Windows and Linux Platforms.

**CORE EXPERTISE**

* Software Design & Implementation/Integration
* Software Development Lifecycle (SDLC)
* Process & Performance Improvement
* Team Building & Communication

**TECHNICAL EXPERTISE**

**Skill & Languages**:

* **Secondary**: C#, C programming, Delphi, QT, Angular, Javascript, Typescript, Perl scripting, HTML, CSS, Winforms, WPF, CGI
* **Primary**: C++/C++11, STL, Design Patterns, Data structure & Algorithm, ShellScripting, SQL, BOOST

**Tools:** MS Visual Studio, Eclipse,CPPCheck, Sonar, DevExpress, GDB, Valgrind, Inkscape, RSM, Delphi XE10, HP ALM, Jenkins& NSIS, Redgate SQL Bundle

**Version Control**: CVS, SVN, GIT, TFS, Clearcase

**EXPERIENCE**

**November 2020 till date Saxo Bank Developer**

**Project Name: Price Explorer**

**Brief overview:** UI Client application connecting with a GRPC Service, developed in WPF and Dot Net Core.

**Platform**: Windows

**Technologies**: C#, Dot Net Core, WPF, Git

**My Contributions:**

* Learnt to use WPF and developed thisapplication from scratch using MVVM in individual capacity.
* Responsible for creating UI designs and then make the actual UI*,*
* Design the project architecture
* Unit Testing and Bug Fixing

**Project Name: Pricing Systems**

**Brief:** Finance/Investment related applications revolving around various financial assets (Stocks, Bonds, FX etc.) and DB operations.

**Platform**: Windows

**Technologies**: C++, SQL Server 2018, TFS, Git, Red Gate SQL Developer Bundle

**My Contributions**:

* C++ development and bug fixing in various applications.
* Write SQL Stored Procedures
* Writing auto Test Cases
* Documentation

**Dec 2014 to November 2020 Sopra Steria Tech Lead**

**Client:** ST

**Brief overview**: Various tools used in semiconductor chip manufacture lifecycle.Mostly Web applications using CGI to route html requests to Shell Scripts, and then routing the calls to C++ binaries.

**Platform**: Linux

**Technologies**: C/ Pro-C, C++, Shell Scripting, Java Script, Perl, Oracle SQL, Apache Web Server with Tomcat.

**My Contributions**:

* Analyze, Code and Test for the new enhancements & Bugs.
* Write C-Units for automatic test cases.

**In-House Project:** BRAINXPO

**Brief overview**: Questionnaire application for asking/answering technical & functional questions.

**Platform**: Windows

**Technologies**: HTML 5, CSS, Angular 9, JavaScript, Node Js, Mongoose, Mongo DB

**My Contributions:**

* Design the UI/UX, implement them with HTML, CSS and Angular for front end & Mean Stack for back end. Learnt all these technologies in order to make this application.
* Design the logo and backgrounds used for the web application using Inkscape.
* Maintain the team activities and progress of sprints. Act in capacity of a team lead of 6 members.
* Test the application and Fix the issues
* Documentation

**Client:** Airbus

**Brief overview**: Almost all of the tools are used for flight tests and communications. I worked on costing, analysis, design, documentation and development.

**[Projects Description] Development Aircraft:** Flight tests data validation and verification tools.

Worked on various Legacy tools with C/C++, Java Swing and AWT.

**Environment:** UNIX

**My Contribution:**

* Mostly analysis of user issues and provide them with a fix
* Bug fixing of reported bugs
* Develop the enhancements proposed.
* POC for recording and maintaining plethora of the WIKI Documents created in past to make sure that the documentation is easily looked up

**[Projects Description] Lab Tests:** Flight tests data validation and verification tools.

**Aneto AIO:** An application that provides a means to communicate from an aircraft to a ground center and vice versa. Front end in C# and back end in C++. Uses Aviation protocols to achieve the communication.

**My Contribution:**

* Analysis of enhancements, costing, design, development.
* Development and bug fixing in C++ and C# (using DevExpress) both. Implemented the reception and decoding of messages in some of the network layers.
* Making the icons of the GUI components I worked on.
* Documentation, UT.

**IDA Manager:** QT and C++ based dll to be used by various other applications.

**My Contribution:**

* Worked on making the connection to the server secure by using Poco libraries and Open SSL.
* HMI enhancements using QT and their underlying code modifications
* Documentation, UT and Bug Fixing.

**TCAS Viewer/Aneto A:** This application is for Traffic Alert and Collision avoidance system for a flight, with Front end in Delphi and backend in C++.

**My Contribution:**

* Analysis of enhancements, costing, design, development.
* Migrated the project from Delphi 2007 version to Delphi XE10 Seattle version and the corresponding C++ part from VS 2008 to VS2010
* Enhancements and bug fixing in both Delphi and C++
* Unit Testing and Documentation

**LIME**: DevExpress/C# based tool to see/edit tickets created on various ticketing tools.

**My Contribution:**

* Analysis of enhancements, design, development.
* Writing various stored procedures for getting data from database
* Made various UI screens using DevExpress.

**TRAININGS AND CERTIFICATIONS:**

* SAFe Practitioner
* One week training in OWASP: Open web application security.

**Apart from work:**

* Have been the member of Continuous Improvement Group
* Have been involved in providing sessions on aviation domain and general topics to the entire vertical. Have been the group lead of one such team of 6 people.
* Enable other team members on Agile/Safe practices and Processes

**2011 to 2014 HCL Technologies Technical Analyst**

**Client:** GE Healthcare

**Interface**: C++, LINUX, Shell scripting, SQL

**Tools:** Visual Studio, Build Tools

**My Contribution**:

* Programming a feature and or a small feature set
* Collaborate with front-end developers to implement solutions that are aligned with and extend shared platforms and solutions
* Providing fixes for any existing issue or new issue being raised
* Writing codes(C++/Unix shell script) for addition of new tests on the tool or making changes in the codes so that any change in the way a tool should perform can be achieved
* Unit testing for any development done

**EDUCATION**

2007 to 2011 B.Tech (ECE): Jaipur Engineering College, Kukas

Before 2011 Schooling: KV No. 3, Ring Road Naraina, Delhi Cantt-10

**INTERSTS AND HOBBIES**

* Documentation and designing (documents and application GUI’s and icons)