**ANUPRITA RATNAPARKHI**

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**Summary:**

 A **C++/Java** programmer with 8yearsof experience in **design and development of GUI applications, Multi-threaded trading applications on Windows/Unix/Linux platform**.

 Hands-on experience in multi-tier **Algorithmic trading system** development.

 Domain expertise in **Finance**, **Telecom**, **Data Processing Applications**, **Consulting Services and Products and Service Oriented Applications**.

 Worked extensively in all phases of a software development life cycle **(SDLC)** from requirements analysis, object oriented analysis, defining architecture, designing, implementation, unit testing, performance testing, documentation, standard reviews, production support and maintenance using C, **C++, Java, SWING, Struts, Spring, Hibernate, JDBC, JavaBeans, JSP, Servlets, Java Collection Framework**, **Python, FIX protocol, MFC, OOPS, COM, XML on Windows/Unix platform**.

 Feature enhancements and complete development of new features using **C++/Java.**

 Expertise in web technologies **HTML, DHTML, CSS, XML, XMLDOM, XSL, MSXML, MXML, Action Script, Perl Script, Python**.

 **Team mentoring and management** for the development and support of application components.

 Design and implementation with modern C++ techniques as embodied in the **standard template library (STL), multi-threading and socket programming**.

 Worked on databases **SQL Server 2000**, **Sybase.**

 Hands on experience in application designing based on **OOAD**.

 Extensive experience in **Unit testing, Module testing, Integration testing, Functional testing** and **System Testing** of the applications.

 Possess excellent analytical, problem-solving, management and leadership skills.

 **Release management processes** and techniques.

 Responsible for onsite co-ordination.

 Excellent communication and presentation skills, self starter, quick learner, team player.

 Development of Automation Testing tools in Python, Perl.

**TECHNICAL SKILLS:**

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| --- | --- |
| Operating Systems | Windows 98/NT/2000/XP/2003/2008, UNIX, Linux |
| Databases | MYSQL 4.1, MS SQL Server 2000, Sybase |
| Languages | C, C++, Core Java, SWING, Java RMI, JavaBeans, Struts, Springs, Hibernate, JDBC, Collection Framework, Agile Scrum SDLC, FIX 4.2, Python, STL, MFC, COM, C#.Net, Perl, Assembly – Intel 85/86, TI - TMS320C54X, TI - TMS320C62X, SQL, FLASH, Transact-SQL, MVC |
| Web Technologies | JSP, Servlets, HTML, DHTML, CSS, XML, XMLDOM, XSL, MSXML, MXML, ADO.Net, ASP.Net, ActionScript, Apache Tomcat |
| IDEs/Other Tools | Eclipse, Source Insight, Microsoft Visual Studio, Code coverage Tool C-Cover, Rational Purifier for Windows, Microsoft Word, Excel, PowerPoint |
| Design Tools | VISIO. |
| Remote Admin Tools R-Admin, Putty. | Putty |
| Source Control Tools | VSS, Rational Clearcase, PVCS, SVN |

**PROFESSIONAL EXPERIENCE:**

**Client: Wells Fargo, NY Nov 2011 – Present**

**Project Name: Algorithmic Trading System/ Role: Senior Associate**

Algo system is developed internally by Wells Fargo which helps to perform various trading operations effectively and efficiently. The Algorithmic Trading Engine, (DaVinci) is a trading engine that autonomously trades customer orders via a set of predetermined strategies.

**Responsibilities:**

 Development of reporting framework in **Java** which generates consolidated Liquidity reports. Build a generic reporting framework which generates consolidated reports for all the desks.

 Development of algorithmic component in **C++** – SmartRouter multi-threaded application for order processing.

 **Leading a team** of 3 people for Algo development team. Responsible for their work assignments, deliverables and helped them to troubleshoot development and support tasks.

 Developed **JSP-Servlets** basedFIX Router admin application which accepts administration commands **using Apache Struts, custom tags and JavaBeans**.

 Implemented the GUI for FIX Router admin application using **springs** framework.

 Development of **Python** System Tests framework which tests algorithmic trading system components.

 Workedn on Production support and monitored Algo system on a daily basis. Handled various support related tasks such as order handling, troubleshooting and assisted trading desk issues related to Algo system.

 Development of **Perl** scripts to generate reports and release scripts.

 Implemented design patterns like **Singleton, Factory pattern**.

 Involved in **Production release management process**.

**Environment:** C++, Core Java, JAVA RMI, JavaBeans, Struts, Springs2.5, Hibernate, JDK 1.5, JSP, Servlets, JDBC, Collection Framework, Multithreading, Apache Tomcat, MVC, Perl, Python, Agile Scrum SDLC, Eclipse, Sybase SQL Server, Transact-SQL **(T-SQL**), SQL Advantage, UNIX, Red Hat Linux, SVN.

**Client: Crestron Electronics Inc., NJ Feb 2008 – ­ Aug 2010**

**Project Name: / Role: Software Developer**

**Crestron Electronics** is a company that manufacturers high-end systems for home automation and audio/video controls. The hardware developed by Crestron includes control processors, touch panels, keypads, lighting control systems, amplifiers and audio servers. Crestron Electronics creates hardware and software to control disparate systems – AV, lighting, thermostats, and security – on a single platform.

**VisionTools Pro-e (VTPro-e) application** is comprehensive Crestron touch screen design software. Using VTPro-e, one can create stunning touch panel and XPanel interfaces that are fully integrated with the Crestron control network. VisionToolsPro-e generates graphical user interfaces for PC desktops, Web Browsers, and Crestron touch panels.

**Responsibilities:**

 Implemented the GUI using Core Java and Swing.

 Developed Font Manager module using Swing JTree and JTable. This module adds support for managing fonts in VTPro-e projects.Using Font manager it is possible to get list of all the fonts which are being used by project.

 Developed Hard Button Manager module using Swing JPanel which is used to manage touch panel hard buttons.

 Developed Theme Manager Swing JTree and JTable to search missing theme style from the theme.

 Developed features "Scan Theme for Missing Graphics" and "Missing Style" for Theme Manager.

 Development of Property Grid Manager using JTree, SQL Server Database: To display all Page/Subpage properties.

Added support for Generating XML report.

**Environment: C++, Java, Java Swing, AWT**, **MVC,** XML, Microsoft Visual Studio (2006, 2008), MFC, COM, SQL, STL,Windows XP, Flash, ActionScript3, MXML, SVN.

**Client: NOKIA/WIPRO Technologies, India June 2005 – Dec 2005**

**Project Name: D500 / Role: C++ Developer**

**‘Nokia D500’** is the next generation DSLAM (Digital Subscriber Line Access Multiplexer) providing high-speed Internet access using DSL technology. D500 is a Highly Scaleable, Multi-Service Access Platform offering ATM with QoS and IP backbone services. It also provides Modular Remote Site Solutions. D500’s flexible architecture can operate with wide varieties of CPEs. The D500 implements ATM over xDSL architecture, thus extending benefits of gains of statistical multiplexing and protocol independence.

**Responsibilities:**

 As a developer was responsible for the **analysis** of requirements from the business analysts and making **estimates** for the same.

 Developed **CDD** (Change Design Document) and **IAD**( Impact Analysis Document ) for features of Nokia D500

 Developed **Inband Bridging Feature** which includes bridging of packets between the inband management channel and the Ethernet management channel for Nokia D500

 Developed **Automated** **Migration** **Tool in Perl** (DSLAM-AMT) – For migration of Nokia 2.x product family to 3.x version

 Handled and Supervised bug fixes

 Responsible for onsite co-ordination

 Responsible for defect reporting, tracking and closure

 Responsible for Verification and Validation

 **Mentoring Team Members**

**Environment:** C, C++, Perl, UNIX, SNMP, VxWorks, Source Insight, Rational ClearCase, and MGSoft MIB Browser.

**Client: KONICA MINOLTA / HCL Technologies, India Jan 2004 – May 2005**

**Project Name: Empresent / Role: C++/Java Developer**

**‘Empresent’** is the cross platform GUI development tool for embedded devices. Application made for one platform can be easily ported for another platform. It has very powerful widget set and different look and feels. Empresent provides quick prototyping with an easy to use Visual Editor and GUI Application Simulator.

**Responsibilities:**

 Was responsible for gathering **requirements**, doing the analysis and formulating **the requirements specification**.

 Was involved in the formulating the system flow and **designing** of the application using OOAD.

 Designed and Implemented new framework (Backward Compatible) for the Adaptation Subsystem to reduce porting time.

 Worked with **STL and boost libraries** for Jpeg Encoder module.

 ‘**Empresent’** Feature enhancement such as image and graphics widget set enhancement.

 Porting of Empresent Norti-Sh7727 platform, Prkernel – ARM platform.

 Responsible for Verification, Validation of closure of bugs -- Defect Tracking

 Porting of **Jpeg Encoder.**

 **Managed team of 4 people for the development of application components.**

 Involved in **Configuration Management**.

**Environment: C++, Java**, **Spring**, **STL**, Java Collections, ARM based Target board, Toshiba TX3927 Target board, Green Hills Software’s MULTI cross-compiler for MIPS, Renesas Hew2 for SH3, Hitachi Renesas’ SH7727 Target board with LCD, Computex’s PALMiCE On-Chip debugger.

**Client: HONEYWELL TECHNOLOGY SOLUTIONS LAB, India Jan 2003** – **Dec 2003**

**Project Name: INAV (Interactive Navigation) / Role: Software Engineer**

INAV (Interactive Navigation) is a technology in Avionics which has an ability to accept the commands from the pilot and maintaining all the data those are essential. INAV removes the MCDU (Multi-function Control and Display Unit) which was based on older technology Monitor Control Display Unit. Verification of the Interactive navigation software ‘EPIC’ monitor to be incorporated in F900 Flight Management software, Adheres to DO178b standards.

**Responsibilities:**

 Created various **C++** test case programs to facilitate testing of INAV through ‘**TICK’**.

 Performed **automated testing** for **‘Fly Boeing 737’** Simulator.

 Analysis & creation of automated test scripts to perform **functional and regression** testing

 Performed **“Black Box”** and **“White Box”** software validation as per software requirements specification (SRS) and software design specification (SDS).

 Performed **Data Driven Tests** with positive and negative sets of data.

 **Applied new techniques** in improving the Testing Process and minimizing the defects.

 **Interacting** with the **Customers.**

 Undergone intensive training in **DFSS**.

 Analysis of code, **verification and validation** of the software.

**Environment:** Windows 2000, C, C++, Edit Plus, ClearCase, Honeywell authorized tools (TICK, TATS), Source insight, DU 1310, Pentium III based Target Hardware

**Client: Nagpur Soft Embedded Technology Pvt. Ltd, India** **Jan 2002 - Jan 2003**

**Project Name:** **Implementation of Jpeg Encoder, ITU-T G723.1 Voice Codec for TI TMS320C54x DSP** **/ Role: Software Engineer**

The module takes input form a QCIF CMOS sensor and converts the QCIF to JPEG. Detailed Study of TMS320C54x Architecture, Assembly coding, Optimization, and Memory Management. Study of ITU-T G.723.1 Standards, Study and Analysis of tool set, Provided Interface for Multi channeling, Assembly coding, Optimization to achieve target MIPS, Memory Management.

**Responsibilities:**

 Analyzed the JPEG standard Code.

 Hardware level optimization, Assembly coding.

 Analysis of G.723.1 Voice Codec ITU – T standard.

 Assembly language coding of C functions provided by ITU – T standard G.723.1 was done.

**Environment:** C, Assembly – Intel 85/86, TI 54x, 62x**,** Code Composer Studio V 2.0, Visual Source Safe 6.0,

**Education:**

B. Tech., Electronics & Telecommunication (1997-2001) from Nagpur University, India