Personal Information:

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Objective:

A C++ UNIX developer skilled in developing real time, high performance applications, seeks a role to utilize his technical expertise and extensive experience in Investment Banking.

Technical Background:

Particulars	Expertise	Familiar with
OS	Sun **Solaris**	Linux, Windows, MS Dos.
Languages	**C++**, C, Core JAVA, PERL, UNIX Shell Scripting.	Lex and Yacc, VC++, JDBC, XML, 8086 Assembly Language.
Third party development tools	Rational Purify, Rational Quantify, Sun Workshop, UPS debugger, Rogue wave.	STL, MFC, LIBXML
Financial protocols and tools	FIX protocol, QUICKFIX lib, EUREX Values API	AGEIS FIX Client Simulator, Bloomberg Terminal.
Middleware	TIBCO Smart sockets	
Protocols	TCP/IP, Sockets.	UDP, SMTP, FTP, MPI, VI (Virtual Interface).
Source code control system	CVS , RCS	
Quality Process	SEI-CMM Level 5	
RDBMS	SYBASE	ORACLE

Professional Background:

- **Work Experience:**
  Over **4 Years**, in financial domain of Investment Banking (Trading Systems), with technical expertise in Software Development on Solaris (UNIX) platform in C++, server side development involving multithreaded and socket programming.

- **Currently Working: Credit Suisse Singapore** (http://www.credit-suisse.com)
  Working on Exchange Line handlers for European and Asian Markets (EUREX, TK, SG etc)
  Worked with Client Connectivity team to develop and maintain software systems used for client connections through FIX.
  (Since Apr-2004 till Date)

- **Previous Experience:**
  1. **With Tata Consultancy Limited (TCS):** http://www.tcs.com
     Worked for Morgan Stanley UK, on development and maintenance of trading system 'FIDESSA'.
     (Since Sep-2003 till March-2004)

  2. **With Sungard Trading Systems:** http://www.sungard.com
     STS is a product development company, which develops trading system products, used for trading on American and European exchanges (NASDAQ, LSE etc).
     (Since Feb-2002 till Aug-2003)

- Specialized in development of financial software on Solaris platform.

Educational Background:

- B.E. Computer, 2001, from C.O.E.P. (Govt. College of Eng. Pune)
  (Bachelor of Engineering, Computer Science)
  65% (First Class)
  (Throughout First Class (FE to BE))

Work Details:

Company Name: Credit Suisse First Boston (CSFB)

Working as Exchange Line Handler Developer.

1.

Project Title	:	Mercury Exchange Line Handlers
Scope of the Project	:	Mercury System provides connectivity to the exchange. It sits between OMS (Order Management System) and Exchange, and communicates with exchange using exchange specific protocol. Languages Used: C++ on Solaris
Duration	:	December 2004 till date
Team Size	:	10+
Role/Responsibilities	:	Software Developer Maintenance of Mercury system, and to add new features according to business requirements. Majority of exchanges I work on use FIX protocol. Currently, I'm involved in core mercury components enhancements. These critical components act as interface between OMS and line handler processes.
Software Tools	:	Sun Workshop, Tools++ library provided by Rogue wave, Rational Purify, Rational Quantify, Solaris, Sybase.

2.

Project Title	:	Trade Reporting Engine
Scope of the Project	:	Trade Reporting Engine enables reporting of off-market trades to exchange. It comes with a UI, used to place Trade Reports into Oracle AQ. Existing core components of exchange line handlers system were enhanced to support Oracle Adapter to listen on this AQ, send it to the line handler process.
Duration	:	November 2005 till December 2005
Team Size	:	5
Role/Responsibilities	:	Software Developer Worked on enhancement of core mercury components to support Oracle Advanced Queue, and to push back confirmations received from exchange, back into AQ..
Software Tools	:	Sun Workshop, Tools++ library provided by Rogue wave, Rational Purify, Rational Quantify, Solaris, Sybase.

Worked with Client Connectivity Team.
This group provides trading connectivity to our valuable Institutional clients throughout the world, over FIX (Financial Information Exchange) protocol.

3.

Project Title	:	GOBUS (Global Order routing bus)
Scope of the Project	:	GOBUS is an order routing system, which can intelligently route orders to necessary instance of Order management System running in each region. The routing takes place on information like product type, preconfigured client order flow etc. GOBUS also does some intelligent message translation, value adding to the message. Its acts as an intermediate entity between FIX server and OMS. Languages Used: C++ on Solaris
Duration	:	September 2004 till date
Team Size	:	10+
Role/Responsibilities	:	Software Developer Maintenance of GOBUS, and to add new features according to client requirements.
Software Tools	:	Sun Workshop, Tools++ library provided by Rogue wave, Rational Purify, Rational Quantify, Solaris, Sybase.

4.

Project Title	:	Generic Database Access Tool
Scope of the Project	:	This software system can be used as a GUI to any database (Sybase / Oracle). It can be used to retrieve database information, list of database objects. User can interact with DB tables, using provided UI, to add, modify or delete rows from the tables. The tool can be further configured to have a limited access view, which can limit the user's access to database. All configurations are controlled through XML files. Languages Used: JAVA
Duration	:	October 2004 till date
Team Size	:	1
Role/Responsibilities	:	Software Developer Designed and developed this software system solely, throughout its life cycle.
Software Tools	:	JAVA, JDBC.

5.

Project Title	:	FIX Client Simulator (FIX System Health Checker)
Scope of the Project	:	This project involved two components. 1. A configurable FIX client, which will send new orders, order amendments, order cancel messages to a configurable FIX server, and will expect response within some time interval. It will be used to detect error in any of the components in Client Connectivity systems; FIX implementation makes use of Quick FIX library. Languages Used: VC++ 2. A UNIX component, which will connect to our Order Management System (OMS) to accept these orders. Languages Used: C++ on Solaris
Duration	:	Apr 2004 – May 2004
Team Size	:	2
Role/Responsibilities	:	Software Developer Designed and developed this software system throughout its life cycle.
Software Tools	:	Sun Workshop, Tools++ library provided by Rogue wave, Sybase, Shell Scripting, MFC, Quick FIX library.

6.

Project Title	:	Generic Report Generator
Scope of the Project	:	This software system will act as a highly configurable tool, which can be used to extract information from any database with any SQL query or PL/SQL block, format the output and mail it to required recipients. It uses XML files to store its configurations. The tool was used in various requirements within Client Connectivity project, which involved such extraction of reports. Languages Used: C++
Duration	:	June 2004
Team Size	:	1
Role/Responsibilities	:	Software Developer Designed and developed this software system solely, throughout its life cycle.
Software Tools	:	Sun Workshop, Tools++ library provided by Rogue wave, Sybase, XML, LIBXML library.

7.

Project Title	:	Automatic Order Responder
Scope of the Project	:	This software system will be used as an auto responder (acknowledger) of orders. It will connect to and interact with our proprietary Order Management System, to achieve this objective. Languages Used: C++
Duration	:	May 2004 – June 2004
Team Size	:	1
Role/Responsibilities	:	Software Developer Designed and developed this software system solely, throughout its life cycle.
Software Tools	:	Sun Workshop, STL, Sybase.

Company Name: Tata Consultancy Services.
Client: Morgan Stanley (UK)

8.

Project Title	:	Fidessa
Scope of the Project	:	Fidessa is Trading System developed by Royal Blue. Scope of our project involved development, deployment, maintenance, and support of Fidessa for Morgan Stanley.
Duration	:	Sep 2003 till March 2004
Team Size	:	10+
Role/Responsibilities	:	Team Member (Software Developer) I was mainly responsible for FDA (Fidessa Data Architect) component and was involved in major upgrade of FDA, which involved subsequence upgrades of some of the other systems as well. I also worked on maintenance of the Fidessa system for our client, which involved changing business logic of Fidessa servers based on business requirements. As part of Fidessa project, I have knowledge of other Fidessa components, i.e. EMMA (European Multi-market Access), FTS (Fidessa Trading System), Fix Gateway, Feed Handlers, Order management and routing.
Software Tools	:	Sun Workshop, Solaris, Sybase, TCL, and PERL.

Company Name: Sungard Trading Systems.

9.

Project Title	:	I.O.I. (Indication of Interest) *(For STS)*
Scope of the Project	:	IOI software system provides the users to create and view an IOI. An IOI is the interest shown by a trader to buy/sell some security. The user can specify the destinations for his IOI. The IOI is then routed through a series of servers and gateways to reach destinations (normally fund companies). The message was sent to destinations using FIX protocol. Languages used for development. Server : C (Back-End) ,C++(Middle-Ware) Front-end : Java
Duration	:	Apr 2002 till August 2003 (16 months)
Team Size	:	4
Role/Responsibilities	:	Software Developer Developed IOI from the design phase till the launch. Responsibilities included developing according to the specification, unit testing, code release, version management, Also, did the design and implementation of the FE library. (Development on back-end, middle-ware and FE)
Software Tools	:	Sun Workshop, JDK, Sun XML parser, IDL, Tools++ library provided by Rogue wave, Rational Purify, Rational Quantify, Solaris, Sybase.

10.

Project Title	:	UIT Architectural Enhancements *(For STS)*
Scope of the Project	:	UIT is the client-server architecture used by some of products of STS. This project was undertaken to improve the performance, add enhancements and to make it robust, prior to its launch.
Duration	:	March 2002 (1 month)
Team Size	:	2
Role/Responsibilities	:	Software Developer Identified the areas of improvement in the UIT architecture, and implemented the same in the libraries used by these servers.
Software Tools	:	Sun Workshop, Rational Purify, Rational Quantify, Solaris.

11.

Project Title	:	CVS Report *(CVS : Concurrent Version System) (For STS)*
Scope of the Project	:	It is a software utility tool which can be used to determine the number of lines added, deleted and changed for a given set of files preset in the cvs repository, over a given period of time. This objective was achieved by parsing the cvs logs using PERL.
Duration	:	Jan 2002 (½ month)
Team Size	:	1
Role/Responsibilities	:	Software Developer Designed and developed the tool on my own.
Software Tools	:	PERL, csh script, Solaris.

12. (B.E. Project)

Project Title	:	VI-Architecture Conformance Suite. *(For CDAC Pune)*
Scope of the Project	:	VIA (Virtual Interface Architecture) is new network architecture introduced to replace TCP/IP, for high performance networks. It was implemented by CDAC as a "Virtual Interface Provider Library" in a chip called "CCP3". Aim of project was to develop software that will check the conformance of this library with the specifications given by Intel.
Duration	:	July 2000 – March 2001 (8 months)
Team Size	:	3
Role/Responsibilities	:	Software Developer Design and development modules assigned to me, along with unit and integrated testing.
Software Tools	:	C, Linux.

Educational Details:

- B.E. Computer, 2001, from C.O.E.P. (Govt. College of Eng. Pune)

Sr. No.	Examination	Institute/ University	Year of Passing	Class/ Division	% marks Obtained
1	B.E.	University of Pune	MAY-2001	***First Class***	65.00
2	H.S.C.(XII Th STD)	Maharashtra state Board	March-97	***Distinction***	84.00
1	A.I.S.S.E. (X TH STD)	C.B.S.E.	March –95	***Distinction***	75.00

Projects done at home:

1. Designed a protocol for communication between two computers through serial port (COM1/COM2) using the 8250 UART programming, on DOS platform. (C, ASM Language)

2. Designed **2D SVGA library** on DOS providing 256 color support on DOS platform (C, ASM Language)

3. Designed **ASSEMBLER IDE**, a text editor on DOS with editing and syntax highlighting support for assembly language source files, with integrated support for assembling and running the programs. (C Language).

4. Designed a game project **CHESS** using game tree approach on DOS (C++ Language)

5. Designed a game project **OTHELLO** using game tree approach on DOS, with Sound Card programming of creative SB16 sound cards to play sound in DOS (C++ Language)

6. Also designed many game projects like **PARANOID**, **TIC-TAC DROP** & many others

7. Also developed many TSR based utilities, device drivers in MS Dos using IBM PC Assembly language and C

Extra curricular activities / achievements:

1. Won 1st prize in C programming contest **PROGRAMMER NO-1.**
2. Won 1st prize in C programming contest organized by **IBMR.**
3. Won 2nd prize in C++ programming contest **LOGISTICS**.
4. Won 2nd prize in C programming contest **SOFTTRACK-2000**
5. Won 3rd prize in C++ programming contest **COMPLEX-IT.**
6. Acted in a documentary film shown on Indian television channel DD-1 named **"SARSHEE".**

Hobbies:

1. Programming and playing computer games.
2. Developing different system utilities using assembly language C language.
3. Game designing using direct SVGA card programming in DOS & using DirectX/OpenGL in Windows.
4. Reading Science fiction, Thriller & Historical books.