

# Jayesh Pokar

Mumbai, India.

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**B.E. Computer Engineering (University of Bombay) - 1991**

**IIT - kharagpur - CEP - Internet Applications & Java with 'Excellent' Grade - Aug-2000**

**IIT - Bombay - DEP Audit PG Courses - OOP with Java, 'Distributed Systems' and 'Mobile Computing'- 2003**

## IIT & Project Certificates

BE Project - Graphics Generator in C. Elective Subjects - DBMS & Robotics.

Diploma in Engg. - Bhagubhai Mafatlal Polytechnic, Bombay - First Class with Distinction

Training at - Larsen & Toubro Ltd. & Premier Automobiles Ltd., Bombay

Development Tools: Netbeans, MS Visual Studio, .Net, Apache, SQLyog, MiniFix, Wireshark, Valgrind

Languages: C++, Python, javascript, jQuery, PHP, .net Core, .net C#, .net CF SDA

Database : MariaDB, SQLite, MS Sql Server

OS : Linux, Windows, Windows mobile 2003

Areas of Interest: System & Application Software, Machine Learning (TensorFlow & Keras)

## Summary

I am having 25+ years of experience in system analysis, design and development. I have designed, developed and installed several software systems in C++, .Net Core, PHP & C#. I am well versed in all aspects of software development from the functional specification stage to the product documentation and implementation phase. I am capable of undertaking software projects either alone or as a key team member.

I was holding **H1B** visa (validity over on 30-Sep-1999) but not able to join the company in USA because of unavoidable circumstances. At present, I am working as a **Consulting Engineer - developing software systems** for my clients in India.

## Software Proficiency

## Project

**shared memory & daemon for Tibco Enquiry Adaptor – DXC Mumbai – Jan-2023 – Mar-2023 – Team Size - 1**

C++ Linux - creating shared memory in existing tibco enquiry adaptor, writing and reading enquiry data to be picked up by daemon.

### **Machine Learning Tensorflow & Keras Capmatrix - Mumbai Aug-2018 - in progress Team Size - 1**

NSE Nifty & Stock Prediction.

### **ECDSA & Keccak for Ethereum - iRESlab - USA** - May-2018 - Jun-2018 - Team Size - 1

C++ Linux IDE - NetBeans C++

Keccak-256 Hash & ECDSA Deterministic Signature - RFC 6979 for curve Secp256k1.

### **Folder Encryption & Hiding** - Developing as a Product - May-2014 - till date Team Size: 1

C++ IDE - NetBeans on Linux & Windows

Single Click Encryption & Hiding Source Folder with any type of files. In-memory handling. Tiny Executable of 480KB. No Installation and no dependency files. H/W USB lock for restoring source folder.

### **Contract Mgt. - Eye Virtual - USA** - May-2017 - Sep-2017 90% of Project Team Size: 3

.Net Core jQuery MariaDB & Handsontable control

Product, Customer, Distributor Masters and relationships. Generating Contract by adding product in Handsontable grid & based on business logic computing total product cost. New Contract, edit, delete & copy. MariaDB SP for specific product category. csv & pdf generation.

### **CapMatrix - Mumbai**

**1. NSE - Connector for Cash Segment - Extending functionality of existing F&O Connector.** May-2016 - Aug-2016 Team Size - 2

**2. MCX - Scalper Strategy Development** - Dec-2015 - Mar-2016 Team Size: 2

C++ on Linux Server. IDE - NetBeans C++. Variant of MultiLeg IOC in which only SecondLeg, Profit & StopLoss Order placed. Upon receiving trade, Profit or StopLoss order gets cancelled. Retry Mechanism, SqrOff and User Requested Cancel of Order/Strategy and associated handling.

**3. Connector for Chicago Mercantile Exchange(CME)** - Oct-2013 - Feb-2015 Team Size: 1

C++ on Linux Server. IDE - NetBeans C++

iLink - Using QuickFix(FIX 4.2) for login, sequence handling and order management.

FAST - Using QuickFAST(FIX 5.0SP2) for rate adaptor. Building QuickFAST library and implementing it for market depth.

MDP 3.0 - Incremental & Snapshot feed handling. Computing missing messages and switching between feeds for recovery. Complex Book Management.

Completed **CME AutoCert+** online approval test for **iLink, FAST & MDP3.0**.

**Re-Certification Audit Trail(CME)** - Dec-2016 - Dec-2016 Team Size - 1

#### **4. Connector for Dubai Gold & Commodity Exchange(DGCX)** - Mar-2013 - Aug-2013 Team Size: 2

C++ on Linux Server. IDE - NetBeans C++ on Linux - g++

Using Quickfix Framework for Login, sequence handling and order management like new order single, modify & cancel order.

EMAPI Login and Event handling like TradeEvent for Last Traded Price etc. & MarketByLevel event for Market Depth.

#### **5. Automated Trading - MinMax Buy-Sell Strategy Development for MCX Commodity Exchange** - Sep-2012 - Nov-2012 Team Size: 2

C++ on Linux Server, C# Client. IDE - NetBeans C++ on Linux - g++

MinMax Parameters - Contract, No. of Ticks & No. of Lots - Min & Max Computation, Buy & Sell based on LTP crossing prev min & max.

Understanding & using existing trading system functionality for placing order and handling reply from exchange.

On every tick, checking current state and Truth table for placing order and handling execution state from exchange.

Checking no. of lots and trapping error condition for cancelling or terminating strategy order.

#### **6. Commodity Trading Client** - May-2010 - Jan 2012 Team Size: 1

.net C# - MySql - Developed CandleStick graph on streaming ticker with ArrayList. Enhancement of DataGridView - key trap for price, qty up/down with overriding processcontrol and state save.

#### **7. IntraNet Trade Admin** Oct-2010 - Aug-2012 Team Size : 1

Php-MySql-jQuery - system, user limit, closing rate, DPR - html table cell editing using jQuery. ViewTrade - PnL - Export to Excel based on Admin & user login

#### **HiMS.Lite** - Developing Hospital Mgt. System as a Product - Nov-2008 - Jun-2010 Team Size: 2

.net c# - DAAB - SQL Server 2005 Client - Server Application

Patient's Registration & Visit / Admission history, Bill, Receipt & Refund with MIS Reports.

Implemented sql table driven mapping for new master generation, Input Validation, Find & Help Data.

#### **Hotel Sun-n-Sheel, Mumbai**

1. Web Application for Outletwise Report - Sep-2006 - Nov-2006 Team Size: 1

Asp.net C# 2.0 - Visual Studio 2005

Loginwise menu and options. Admin. control of login-outlet rights. Distributed Hotel Outlet can add daily sales data and management can view daily outletwise,datewise report along with weekview & monthview graph. Weekview also displays festivals or important tags in graph.

2. Wireless Lan 802.11b Order System thro' PDA - Nov 2004 - Jan 2005 Team Size: 2

PDA - HP Ipaq 3715, Windows Mobile 2003, VB.Net SDA, .net Compact Framework, Backend - MS Sql Server

New Order, Order Status, Bill, Modify & Cancel Order Details

**SmartWare, USA** - Aug - Oct 2005 ( Developed in Mumbai ) Team Size: 1

InsureChoice - Health Care Computation - Conversion Project - c# to Asp.net c# - xml

changed UI & flow of existing c# standalone code to Asp.net c# - xml.

**Datamatics Technologies Ltd, Web Solutions Division, Mumbai** Dec 2000 - Dec 2004 VB6 - MS Access Team Size: 1

1. Software for Generation of Error Reports with required Statistics and Error Listing.
2. Software for Generation of various Reports & Invoice from scattered Database for Billing.

**Tata Power Ltd, Mumbai**

1. Backup System May - Jun 2003 VB6 - MySql Team Size: 1

Developed Backup system using Socket & ftp. Employee executes Client, which communicate to server socket, receives required. information for compressing folders for backup. With ftp, backup file gets transferred to linux backup server and log created in MySql database at NT server.

2. Travel Desk : Dec 2003 - May 2004 Team Size: 1

Apache, PHP, MySql Intranet System. Requisition form, e-mail to senior for approval, approved email to employee and Travel Dept. Ticket status, Bill details, Agentwise, costcenterwise, airlinewise & Summary reports. Different Login menu for employee, Approving Authority & Travel Dept.Admin.

**Other Software Development & Consultancy work**

Taurus Solutions, Bombay Jan-Feb 2005 - Instant Messenger - VB6, MSSocket, MS Access

H.V.Jewels Pvt.Ltd. Bombay - May-2008 - Jun-2008 - C# - MS Access - BarChart Application for Quality Control Dept.

Suchan Software, Bombay - Asp.net c# Web Application for Jewellery Manufacturer

Aditya Associates, Bombay - Patent & Trademark Attorney : Developed software for Trademark / Copyright / Design/ Patent data of clients, implemented business logic, search and report generation.

NIC based software lock for VB App.

Contact Mgt./Maintenance followup Software for h/w vendor

Product Costing Software

Inventory Mgt. for Optician

Project Cost Control

Cough & Cold Prescription : Homoeopathy India Foundation, Bombay.

Delivery Challan & Invoice

Software for Gold Jewellery Trader (one module)

Software for Medical Book Shop

Reminder and A/C outstanding

Software for Sports Club

Demo. of Online Legal Details.

User Control : ActiveX Numeric Data Entry Control

Payroll System

Information Retrieval System

Picture Transformation Routine

Purchase Order Processing

Patient' s Medical Diagnosis Details Retrieval

Quotation Preparation

Directory / File Locking

**Copy Protection** - written in c & assembly, changing diskette drive parameter, writing/reading sector gap.

Other minor software routines and projects :

Bios and Dos Interrupts & Services - String, file handling like Create, Open, Close, Move File Pointer. Exe and Com file structure and memory models.

Interrupt Handler, changing interrupt vector.

Boot sector and Dir. structure.

C, C++ and Clipper compatible Object Module and Library for linking.