Praduman Tiwari (QA Manager)

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PERSONAL SUMMARY:

Accomplished and result-driven Quality Assurance professional with over 9 years of experience in quality assurance, design verification and system design in the software industry. I have an impressive range of hands-on experience leading large offshore teams (currently leading 6 team leads), overseeing six test teams and responsible for managing 25+ projects for monthly releases across the breadth of IG’s trading platforms globally, as well as all internal back end and infrastructure projects**.** Initiated and implemented the Agile methodology for both the Development and QA teams and handled few projects as a Scrum Master. Experienced in the integration and testing of third party software. Aptitude to build, train, lead and motivate effective cross functional teams. Highly adept at QA planning, developing and implementing test strategies, operational procedures and quality methodologies to support development and release of business applications.

Detail oriented with apt communication, inter-personal and analytical skills, can handle multiple tasks to meet deadlines in pressure situations. Diligent, hardworking, self-motivated, team and client focused coupled with the ability to acquire new skills within short time scales and adapt to rapidly changing work practices.

QUALIFICATION:

* MCA from Bangalore University
* BBA from Barkatullah University
* Pursuing MBA from distance learning education

EXPERIENCE SUMMARY:

* Working since 6.3 years as QA Manager (Head of QA) in IG InfoTech (India) Private LTD (IG Group).
* Worked around 1.7 years in Wipro Technologies - Worked as a Senior Software Engineer.
* Worked around 1.1 year in Ram Informatics Limited - Worked as a SQA Engineer.
* Worked as a Software Developer (Trainee) in Vinciti Networks ltd.

PROFESSIONAL SKILLS:

Proficient in:

* Operating Systems: Windows
* Test Management tools: TestLink, Version-One, Salesforce, JIRA and HP Quality Center.
* Microsoft Products: MS Office, MS Project Plan
* Automation Tools: Selenium and RTF (In-house API testing tool)

Good working knowledge in:

* Programming Languages: C/C++, Java
* Scripting Languages: VBScript, Shell

Business domain knowledge:

* Real Time Trading and Spread Betting
* Investment Banking and Financial products
* Retail Industry
* eGovernance Product

AREAS OF EXPERTISE:

* Project Management, Strategic Planning, Quality Assurance, Quality Control, Internal Audits and Risk Management
* Agile Methods and Certified Scrum Master

PERSONAL SKILLS:

* Attention to detail
* Quick learner, self-motivated and good planner
* Flexible, consistent and adaptable to change
* Good Communication and inter-personal skills
* Good leadership, team building, work force managing and decision making skills
* Analysis of business requirements and creation of Functional / Technical specifications
* Expertise of testing complex financial systems and commercial trading systems
* Profound knowledge in mobile application testing
* Exposure to working in agile, V&V and waterfall methodologies
* Experience in the analysis and design of the automation process
* Perform & maintain internal quality audits process and root cause analysis

**WORK EXPERIENCE:**

QA Manager (Head of QA) - **IG Infotech (India) Private Limited (IG Group)** (March 2008 – Present)

**Description:**

Founded in 1974 as Investors Gold and now world-leading provider of contracts for difference (CFDs), financial spread betting and forex trading. IG has been leading innovation in the financial industry for the last 40 years. IG is an established member of the FTSE 250 and has a market capitalisation of £2.2 billion. IG has offices in 16 countries and nearly 140,000 active clients worldwide.

**Major Projects:**

***Pure Dealing*** *–* This is the frontend platform used by our clients to place deals and manage their accounts. Pure deal is a web-browser based platform. Pure deal provides facilities for placing deals on a large number of markets on different exchanges, doing payments related operations, viewing historical trading/transactions related data, placing price/indicator alerts etc. Clients can also setup their account preferences using the pure deal platform and can add multiple accounts to his user name as per his requirements using pure deal platform.

***Stockbroking*** *–* Stockbroking is the new major application developed in UK and tested in India office; the purpose of this application to provide facility to clients buys or sells physical trades, it includes stocks, shares, bonds and other securities.

***Payments (E2E)*** *–* This application allows clients to manage their cards and bank details online with IG trading applications. This application gives full control to clients for deposit and withdrawal cash from their cards and also adds/ removes cards from IG trading platform.

***L2*** *–* L2 Dealer is primarily a Direct Market Access (DMA) platform, allowing more experienced traders to trade straight into the order book of equity and future exchanges worldwide.

***Dealing Rest API*** *–* Dealing rest is an external facing web application offering no User Interface, instead it offers services to any application requiring interacting with the dealing systems internal to the IG ecosystem. Because of that, the expectation is that dealing-rest contains a quite thin layer of actual business logic, it rather deals with the technicalities of bridging an independent conventional and consistent external facing interface to whatever interface is internally required to reach our internal systems.

***Business Intelligence –*** Business Intelligence is a web based reporting and analytics tool that allows users/clients to create, run and save reports on their account for any information. Oracle BI Answers is a powerful report and chart generation tool that allows the users/clients/IG to explore and interact with the Data Warehouse and present it in many different formats, tabular report, pivot tables, charts or graphs, which in turn aids in strategic decision making.

***Account Maintenance Services (AMS) and Back office System*** *–* AMS application manages the end to end transactions for all the client accounts such as personal details, contact details, dealing, payments, commissions etc. The Internet Monitor (IM) is the GUI for AMS. When changes are made through IM, the details are saved in AMS database (Oracle) and also updated in downstream systems such as Universe, Salesforce and Order Server.

***Salesforce maintenance*** *–* Salesforce business is a team which is responsible for business development. This team is responsible for the communication among different-different application and updating the details in salesforce system.

***iOS Devices (iPhone & iPAD)*** *–* iOS team is responsible to develop mobile app for iPhone and iPad. This is a mobile UI from which the client can interact with the IG dealing system. Here, we develop and test UI for iOS devices and it interaction with the dealing rest middleware (E2E testing on IG Apps).

***Android OS Devices based Application*** *–* Android team is responsible to develop mobile app for Android devices. This is a mobile UI from which client can interact with IG dealing system. Here, we develop and test UI for Android devices and it interaction with the dealing rest middleware (E2E testing on IG Apps).

**Regression Function:**

We undertake Frontend, Backend and Device regression testing on UAT and DEMO environments. We use TestLink test management system to record the regression execution result (TestLink holds our regression test library and allows us to record the results of each test case run as a part of Test Pack (or Test Suite) and can be reviewed for the auditing purposes).

***Frontend System –*** Frontend regression testing is done across the majority of IG’s websites, i.e. for IGI, IGM, AUM, FXO, SGX, DEM and NADEX sites. The team executes approximately 35, 000 test cases in each release in 3 cycles (including all the sites and supported browsers). We cover major features in frontend regression testing i.e. Dealing (OTC and DMA), Customer Interface, Payments, Account opening, Charts, Meta Trader, Client Manager, Sprint Markets, Wizard, Play Dealer, Frictionless trading, L2 IG Bet Input User, L2 External Broker, L2 External User and Internal Interface.

***Backend System –*** Backend regression testing is done across the majority of the backend areas to check and certify the backend functionalities. We cover Dealing Rules, Internet Monitor, FIX-OTC, Deposit Calculation, Close Out Monitor, Chart & Exchange Billing, Auto & Manual fills, Auto-hedge, Auto-load, Dividends, Auto roll and Auto Close.

***Device World –*** Device regression testing is done on IGI and IGM Apps on the most popular handsets/tablets. We cover most popular handsets/tablets in device regression testing such as iPhone, iPad, Android, Windows Phone and J2ME application (MD3) smart phones.

**Responsibilities:**

* Responsible for over 50 QA testers across six teams (regression team, new projects team & automation team), including full resource planning, strategic planning and risk management.
* Managing 25+ projects for monthly releases across the breadth of IG’s trading platforms globally, as well as all internal back end and infrastructure projects**.**
* Handled the major projects (Stock Broking, Payments, L2) right from the conception stage till the release of the projects.
* Implemented Agile test plans to match IG’s agile processes.
* Developed and introduced User Acceptance Testing and Regression Testing process.
* Developed the company wide Test Strategy based on an agile consultancy model incorporating the SAFE framework.
* Reviewing test planning, test design, execution and reporting methodology from a process perspective.
* Created all standardised QA templates and processes and put in place a rigorous defect management process.
* Member of a Agile Working Group responsible for championing Agile across the development lifecycle for both Development and QA teams. This involved giving specific training, including running Scrum Master training for internal development staff.
* Chaired a discussion group for QA and development and Project Management team leads to promote close co-operation and sharing of a common goal. Tackled common problems experienced in Agile development.
* Key member of a release post-mortem group promoting Quality Assurance across the board, not just in software testing.
* Introduced and implemented Risk Based Testing (RBT) process in all testing phases and projects.
* Understand the future requirements in terms of assurance practice establishment.
* Involved in quality assuring of Mobile based Trading applications for all the mobile OS ecosystems – iOS, Android OS, WP7&8 OS, BB OS, J2ME/Symbian OS.
* Extensively involved in regression testing of frontend, Backend, middleware and mobile apps equities trading and processing applications.
* Gained good understanding of the business flow of MiFID compliant Trading and Reporting directives.
* Instigated many initiatives to improve the QA processes of the department.
* Establishing and tracking of QA metrics.
* Carrying out internal quality audits on regression test processes & root cause analysis for the same.

**Software:** Core and advanced Java, spring framework, Hibernate, Maven build tool and Oracle.

**Platform:** Windows 2007 and Mac OS.

**Automation:**

***Regression Testing Framework (RTF)*** – RTF is an API, which interacts with external web service to place a deal. There are four different services been used in RTF – Order Service, Payment Service, User Service and Position Service.

RTF also confirms the middleware health check apart from testing automated dealing functions.  
In RTF, requests are sent as a SOAP request (in the form of XML) which converts in to JSON object which internally communicates with all services and places a deal.

**Software:** Tapestry (GUI), spring framework, Hibernate, Maven build tool and Oracle.

***PD Selenium –*** We used Selenium WebDriver to automate IG’s web applications. It aims to provide a friendly API that’s easy to explore and understand, easier to use than the Selenium-RC (1.0) API, which will help us to make our tests easier to read and maintain. It’s not tied to any particular test framework, so it can be used equally well in a unit testing. We used Jbehave-BDD approach that describe and formalize the behavior of IG’s applications.

**Software:** Core and advanced Java, IntelliJ Idea, Jbehave plugin, spring framework and Mongo DB.

**Responsibilities:**

* Initiated and built the automation team for the QA processes.
* Performed automation feasibility analysis and conducted proof-of-concept evaluation.
* Exposure on the analysis and design of the Selenium and RTF Test Automation Framework.
* Understand the issues, challenges faced by the teams, provide technical direction to them and in turn enhance quality and productivity.

Senior Software Engineer - **Wipro Technologies** (July 2006 – February 2008)

**Description:**

Charles Schwab Corporation is one of the largest financial services firms in the United States. Charles Schwab provides securities, brokerage, banking, wealth management and related financial services for over 8.1 million active accounts.

**Projects:**

**Domestic web trading (DWT)** is the online web trading site of Charles Schwab Corporation. Schwab offers a variety of products available for trading online, plus choices for customer’s long-term investing needs.  
***Stocks*** – At Schwab, clients have access to all the major exchanges and something more: fast, complete fills on your securities trading order with frequent price improvements.

***Exchange-Traded Funds*** – Schwab is the place to trade ETFs. Advanced screeners and ratings tools make it easier to find and evaluate ETFs that fit for clients.  
***Options*** – Whether you trade simple options or pursue complex, multi-leg strategies, you’ll find the tools and support your need – all at low per-contract commissions.

***Futures*** – Schwab offers a variety of options to trade future at optionsXpress application.

**Responsibilities:**

* Identify the key risk items, test focus areas and test phases to be completed.
* Define and create the test strategy and test plan for agreed test phases.
* Involved in Integration, System and Functional testing, verifying results and reporting the defects.
* Managing the daily and weekly test status meetings during test execution phase.
* Involved in managing test requirements throughout the product lifecycle, covering test analysis, planning, design, test data preparation and test execution.
* Review test planning, test design & execution and reporting methodology from a process perspective.
* Understand the future requirements in terms of assurance practice establishment.
* Coordinated with all the project teams to standardise the test processes and deliverables.

**Software:** J2EE, Java Spring, Visual Basic and DB2.

**Platform:** Windows 2000, NT, XP.

SQA Engineer - **Ram Informatics Limited** (July 2005 – June 2006)

**Description:**

RAMINFO has provided mission critical IT solutions to Government, Public Sector, Banks and Enterprises. RAMINFO’s competence in technology, business processes and domain knowledge gives them the differentiating edge.

**Projects:**

**Bangalore One** project is to provide various citizen centric services across multiple domains through a single point of access located across the city of Bangalore. It renders one-stop services to the public eventually through multiple delivery channels like ICSCs and Bangalore One Portal. These services are incorporated under the Government to Citizen (G2C) facilities provided by the Government of Karnataka.

***eSmartBanker*** is a completely web-based and centralized core banking solution (CBS) covering all the functions of a bank. It supports multi-currency transactions across all delivery channels.

***SmartBanker* i**s an advanced Total Branch Automation (TBA) banking product available in client-server architecture covering Retail and Corporate banking services. It is highly parameterized to support the dynamic nature of customer and regulatory requirements.

**Responsibilities:**

* Understanding the business flow of Bangalore One, eSmartBanker and directives.
* Involved in managing test requirements throughout the product lifecycle, covering test analysis, planning, design, test data preparation and test execution.
* Involved in Test Plan review from initial level and Defining the scope of regression testing.
* Involved in Integration, System and Functional testing, verifying results and reporting the defects.
* Creation of Test Execution & Progress Reports for management use.
* Maintenance of test script repositories.
* Ensure test process and QA standards are successfully implemented.

**Software:** J2EE, Java Spring, Visual Basic, VB.NET, ASP.NET, Java Script, SQL Server and DB2.

**Platform:** Windows 2000, NT, XP.