A. J. S. Raja Ravi Varman

Test Automation & DevOps Engineer

Chennai, India

+91 9600664747

email@rajaravivarman.com

Summary

IT Professional with 10 years experience in Business Analysis, Product Engineering, DevOps, Application Integration, IT Security, Service Virtualization, Quality Engineering & Assurance of Card Issuing and Merchant Acquiring Software.

Subject Matter Expert in Payment Gateways, Authorization, Clearing & Settlement, Message Protocols (ISO8583, APACS, etc), Service Virtualization and Test Automation.

AWS Certified Solutions Architect - Associate & PSM I Certified.

Education

Bachelor of Engineering   2007 - 2011

Madras Institute of Technology Campus, Anna University

Electronics and Communication Engineering

Work History

Lead - Test Automation & DevOps (Payment Gateway)   2018 - 2020

Fiserv

Building Service Virtualization & Automation Frameworks for the Quality Engineering & Assurance Division of EMEA Global Business Solutions.

QA Consultant   2016 - 2018

Wirecard AG

Software Engineering and QA for the Wirecard Issuing Processing Platform.

Test Engineering Sr. Analyst   2011 - 2016

Accenture

Financial Services - Center of Excellence: QA for Card Issuing and Merchant Acquiring software.

Skills

TestOps

- UI Automation - Selenium, Cypress, TestCafe and UFT
- API Automation - Postman, REST Assured and SOAP UI
- Mobile Automation - Appium and Espresso
- BDD - Cucumber (Serenity BDD)
- Service Virtualisation - WireMock and T3 Switch
- Test Labs - Sauce Labs, BrowserStack, Firebase Test Lab and Apple TestFlight
- Test Management API - Xray
- Reporting - Allure
- CI/CD - Jenkins
- Parallelisation - Forking (Serenity BDD)

Software QA

- SQA Testing & Methodologies – Waterfall, V-Model and Agile
- Test Strategies & Coverage Analysis
- Test Estimation
- Requirements Traceability & Impact Analysis
- Test Plans, Cases & Process Definition
- Functional, Compliance and Certification Testing
- Regression & Negative Testing
- Data Extracts and Reports Validation
- Non Functional Testing
- Data Interface & Migration Testing
- Mainframe Testing
- Testing Automation
- Defect Lifecycle Management
- QA Metrics

Solution Development

- AWS
- Microsoft Azure
- Node.js
- Electron.js
- .NET Framework
- MongoDB
- Firebase

Scripting

- C#
- Java
- JavaScript
- Python
- Go

Industry Skills

- Financial Services – Payments – Card Issuing & Merchant Acquiring
- Scheme Compliance and Certification
- MDR, Interchange & Card Scheme Fees
- Cloud - AWS/GCP/Azure
- Wallets and Tokenization
- Switching & Authorizations
- Clearing and Settlement
- EMV and Contactless Payments
- Payment Gateway Integration

Projects

Project I: First Data's Card Issuing Platform for EMEA Clients - Functional, Compliance, Certification and Regression Test Cycles

Role: Test Engineer

Domain: Financial Services – Payments domain covering Authorizations, Clearing and Settlement on Card Issuing portfolios

Client: First Data Corporation

Application Description: VisionPLUS - A proven payment solution used by financial institutions of all sizes around the world, to process payment portfolios for credit, debit, prepaid consumer, and commercial cards, as well as consumer loans. It runs on mainframe servers with IBM's Z/OS, capable of scaling and handling large volumes cost effectively.

Highlights:

- Functional and Regression Test Planning and Execution in a Mainframe Environment.
- Involved in major Compliance testing releases and successfully ensured product compliance on the global payment processing standards (Visa/MasterCard/American Express/JCB/CUP).
- Testing Experience over 35+ releases of the product in a span of 5 years.
- Covered SIT for 5 new clients into the platform.
- Delivered Test Scope and Test Script documents by translating the requirements from Functional/Technical Specifications. Also provided Impact Analysis and Traceability Matrix for regression.
- Extensively tested Authorizations with simulators viz. Visa Test System, MasterCard Authorizations Simulator and American Express Authorizations Test Simulator. Proficient in ISO 8583 Financial transaction card originated messages - Interchange message specifications and custom formats like Diners and APACS messages.
- System Integration Testing with third party interfaces of Falcon (FICO) and Base24.
- Performed successful QA on Tokenization and Card Digitization enhancements for integrating wallet service providers viz. Apple Pay, Samsung Pay and Android Pay
- Provided client developer teams with detailed reports on quality metrics, identified bugs/flaws and recommended fixes.
- Accelerated average testing turn-around time by 50% using Selenium and VBA Automation.
- Designed and implemented automated testing tools and programs addressing areas of regression testing, negative testing, error/bug retests and NFT.
- Delivered thorough QA testing reports that determined product quality and release readiness.
- Experienced in defect management using HP Quality Center, IBM Rational ClearQuest and IBM CLM (RQM, RTC and RDNG)
- Responsible for reviewing monthly and weekly metrics and reporting to the stakeholders.

Project II: First Data's Merchant Acquiring Platform for APAC Clients - Functional, Compliance, Certification and Regression Test Cycles

Role: Test Engineer

Domain: Financial Services – Payments domain covering Authorizations, Clearing and Settlement on Merchant Acquiring portfolios

Client: First Data Corporation

Application Description: ACI Worldwide's BASE24 Platform for Authorizations, First Data's Omnipay Platform for Clearing and Settlement, and Ingenico and Verifone POS Terminals.

Highlights:

- Functional and Regression Test Planning and Execution for acquiring enhancements for ICICI Merchant Services and IDFC Bank
- Terminal (Ingenico and Verifone) and Scheme (Visa, MasterCard, AMEX, Rupay, JCB and UPI) Certification Testing
- In-charge of QA for migration of First Data Merchant Services from Hong Kong BASE24 platform to India BASE24. Planned and executed the ST, SIT and UAT for the migration.
- Integration tested the various wallets implemented into the platform – Paytm, Idea Money, JioMoney, Mobikwik and Tone Tag

Project III: Wirecard's Prepaid Card Issuing Platform - Functional QA and Test Automation

Role: Test Lead

Domain: Financial Services – Payments domain covering Authorizations, Clearing and Settlement on Card Issuing and Merchant Acquiring portfolios

Clients: ANZ, JetPrevilege, CIBanco S.A., Mercantile Bank S.A., UAE Exchange and Lastminute.com

Application Description: CoreCard is a family of full-featured card management, payment, and transaction processing products running on .NET framework using Microsoft SQL Server.

Highlights:

- In charge of QA for all the on-boarded new clients to the start-up payment processor platform of Wirecard Processing FZ LLC.
- Managed a vendor team of 15 members in the testing engagement.

- Responsible for QA for the migration of existing clients from legacy platforms to the Wirecard platform.
- Integration tested third party Payment Gateways, Transaction Push/Pull Notification Modules, Fleet Authorization Modules and white label mobile applications.
- Extensively validated User Security, Workflow, Business Rules, Data Access, Transaction Posting and GUI for prepaid card (open loop or closed loop) processing, private label credit processing and fleet card processing.
- API Automation using Postman
- Automated validation of client data extracts and reports using Selenium and Python.

Project IV: Fiserv International Payment Gateway - Test Automation, Service Virtualisation & DevOps Integration

Role: Lead - Test Automation & DevOps

Domain: EMEA Global Business Services

Client: First Data Corporation's Retail Alliances and Merchants in EMEA region

Application Description: First Data's (now Fiserv) Payment Gateway connected to ACI Worldwide's BASE24 & Postilion Platforms for Authorizations, First Data's eMAXS and Omnipay Platforms for Merchant/Acquirer Boarding, Clearing and Settlements.

Highlights:

- Migrated a repository of 6000+ automated UI tests from UFT to Serenity BDD (Selenium Cucumber) in span of 6 months and enabled integration with the CI/CD pipeline for touch free deployment until UAT environment.
- Created a custom test automation framework using selenium with focus on reusability.
- Developed a service virtualisation solution and framework from scratch using Node.js for ISO8583 based protocols testing in TCP layer. The solution was used by multiple teams in the organisation to get faster feedback from the automated UI and API tests and was run and monitored 24x7 using PM2.
- Used REST Assured and Cucumber to automate API tests and integrated with Jira XRAY for further integration to Jenkins.
- Test Estimation, Planning and Execution for customization/enhancements to various retail acquiring alliances and merchants in the EMEA region.
- Test Design, Execution and Support for Visa, Mastercard and PSD2 compliance.
- Successful certification of in-house Internet Payment Gateway for integration with existing Client POS systems.
- Hands on test engineering on switching, authorization, clearing & settlement platforms.
- Worked closely with Clients and Schemes for end-to-end certification of host systems.
- Monitored end-to-end transaction life cycle, reporting and periodic reconciliation of posting and settlements for on-us and off-us models of acquiring in production environment.

Secondary Expertise and Achievements

- Experienced in handling Mainframe CICS and TSO operations
- Strong domain knowledge encompassing various functionalities of Credit Card lifecycle - Account Boarding, Card Issuing, Transaction Processing, Disputes and Settlements and Merchant Acquiring
- Proficient in Microsoft VBA Programming using which I have automated workflow and process management in quality assurance.
- Led a team of 15 members in test planning and execution phases providing SME support and coordinating test progress and defect lifecycle management till completion.
- Active participant and organizer of team events.
- Recognized with:
  - "Catalyst" (Quarterly) and "Mogul of the Month" (Monthly) awards for my performance in the testing engagement.
  - Winner of the "Numero Uno 2014 Q4" award given by Accenture every quarter for delivery excellence.
  - Also won the "Team Excellence" award for successfully completing a major SIT release and bagging UAT with our performance in SIT.
  - "Wirecard Merit Award 2018" for successfully completing QA for migrating a major bank in Australia from legacy Unix System to Windows based platform.
  - "Contributor to the Cultural Hub" award for organization of cultural events at Accenture.
- Submitted whitepapers at intra-organizational testing conventions.
- Certified Tricentis Tosca Automation Specialist Level 1 and Level 2.