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Santosh

Lead, Technology

Experience summary

Santosh has almost 9 years of experience in the software industry. She offers experience in developing various java card and toolkit applications and automation framework for embedded products. She has solid understanding of Smart card Technologies. She has sound exposure to testing practices like test planning, test design, test execution, and defect reporting and tracking. She is skilled in areas of planning, coordinating, and reviewing team's activities.

Trainings and certifications

- ISTQB Certified Foundation Level Tester
- ISTQB Certified Agile Tester
- Microsoft certified Technical Specialist.
- GNIIT 3 years Diploma in Microsoft Technologies
- Udemy trainings:
    - Linux for beginners and Linux command line (basics)
    - Java design patterns and SOLID design principles
    - Efficient Java multithreading with Executors

Skill set

Programming and scripting languages	Java, javacard, C++, C#, XML, HTML
Frameworks	Microsoft Visual Studio, Eclipse, Django, Visual Studio Code
DevOps	Github, JIRA, Perforce, TortoiseSVN, Test Link, Jenkins, TeamCity, Rally
Hardware	Universal Robot 3, Biometric Access Devices, UICC, Secure Element, Contactless Smart Cards
Devices and OS	Windows XP/10, Linux
Specifications	ETSI TS 102 221, ETSI TS 102 223, ETSI TS 102 226, SGP02, GPC-SCP03

Education

- Master of Computer Applications, Banarsidas Chandiwala Institute of Information Technology (BCIIT), New Delhi, India
- Bachelor of Computer Applications, Indira Gandhi National Open University (IGNOU), New Delhi, India

Recent projects

Windows Key Fob BLE PC/SC Driver

Organization	Nagarro
Duration	Aug 2019 to current
Project overview	The project involved development of PC/SC BLE driver to use the key fob for PKI uses cases on a PC/desktop through a Bluetooth channel. The PC/SC BLE driver is to be installed on the PC/desktop system. After installation, the key fob will be accessible through Bluetooth by using the PC/SC sub-system.
Technologies	C#, C++
Responsibilities	– Communication with Client for requirements. - Responsible for: – Dev plan creation – Unit Test case development and execution. – Integration Test case development and execution. – Maintaining CI jobs on Team city - Involved in: – Backlog refinement along with product owner – Created and maintained project specific trackers

VBF Automation for Series of Biometric Access Terminals

Organization	Idemia
Duration	Feb 2018 – July 2019
Project overview	Project involved working on the product series that provided an innovative and effective solution for access control applications using fingerprint verification and identification. The product family supports different contactless cards also.
Technologies	Universal Robot 3, C#, Microsoft Visual studio 2017, XML
Responsibilities	- Involved in: – Universal Robot lab setup – Backlog refinement along with product owner - Added new features in test management tool using C# - Responsible for implementing new features for core app and GUI application (C++) running in terminals. - Designed and developed hybrid test automation framework. - Maintained CI jobs on Jenkins - Handled test plan creation - Carried out peer reviews - Created and maintained project specific trackers

Mifare4Mobile framework Implementation

Organization	Syscom Corporation Pvt. LTD.
Duration	Jan 2016 – Jan 2018
Project overview	Project involved technical implementation of MIFARE4Mobile framework which provided mobile network operators, trusted service managers, and service providers with a single interoperable programming interface to remotely manage MIFARE product-based services in SIM cards of mobile NFC devices over the air.
Technologies & Protocols	Core Java, Eclipse, Embedded C, ETSI TS 102 226, SGP02, GPC SCP03, Mifare4Mobile Technical Specifications
Responsibilities	- Developed various modules of framework in card. - Javacard integration APIs implementation. - Extracted functional requirements from the standard technical specification documents. - Responsible for: - Test specification and design and development of test library - Component, functional, regression, and performance testing - Developed mock low-level library for component testing. - Involved in test cases development, execution, defect management, and reporting

eSE-Mifare

Organization	Syscom Corporation Pvt. LTD.
Duration	March 2015 – Dec-2015
Project overview	Project involved technical implementation of Mifare (Classic and Desfire) in embedded Secure Element.
Technologies & Specifications	Core Java, Eclipse, Mifare Desfire and Mifare Classic Technical Specifications
Responsibilities	- Responsible for: - Performing validation of Mifare component of the product. - Test case development and execution. - Bug Fixing - Involved in: - Backlog refinement along with product owner

	– Performance Testing of Mifare using ST Comprion

UICC with Call Control

Organization	Syscom Corporation Pvt. LTD.
Duration	December 2014 – February 2015
Project overview	A UICC Product with Call Control Feature Enabled
Technologies & Specifications	Core Java, Eclipse, ETSI TS 102 223, ETSI TS 102 221

Responsibilities	• Responsible for:
	  – Call control feature development.
	  – Bug Fixing.
	• Involved in:
	  – Backlog refinement along with product owner
	• Created and maintained project specific trackers

Cell Tick -LiveScreen

Organization	Syscom Corporation Pvt. LTD.
Duration	August 2013 – November 2014
Project overview	Project involved working on a toolkit application present in SIM card. It had features such as displaying active messages on mobile home screen, delivering location aware services, and providing dynamic menu management.
Technologies & Specifications	Core Java, Eclipse, ETSI TS 102 223, ETSI TS 102 221, Celltick Technical Specification
Responsibilities	• Implementing various features of Application in Card. • Developed automation test suite. • Responsible for test execution, defect management, and reporting • Developed stubs and drivers for component testing