

Rajendra Singh

(Software Development Engineer)

13.5+ years of industry experience in analysis, design, and development of s/w applications. Involved in designing, developing, debugging, integrating and release.

Bangalore, India

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PROFESSIONAL PROFILE

- Experience in developing **windows apps** using **C++/VC++/Win32/WTL**.
- Strong knowledge of **C++11/14/17/20** and **OOPS Concepts**.
- Knowledge of TCP/IP/HTTP protocols, **COM, MFC, Python** and **NSIS** scripts.
- Strong knowledge of DevOps, Git, Jenkins, CI pipeline, Unit test automation.
- Responsible for designing, developing, integrating, and making the release.
- **Have worked as Project Coordinator for 3 months at Samsung Electronics, Suwon, South Korea.**
- **Active member of the Notepad++ development team.** Currently, I am 2nd the highest contributor.

CAREER SYNOPSIS

Company	Designation	Period
Zscaler Softech India Pvt Ltd, Bangalore	Senior Staff Engineer	Jul 2023 - Present
McAfee Software India Pvt Ltd, Bangalore	Software Engineer	Dec 2019 - Jul 2023
HP Inc., Bangalore <i>Samsung R&D Institute India, Bangalore (Dec 2013 - Oct 2017)</i>	Software Designer <i>(Technical Lead)</i>	Dec 2013 - Dec 2019
Honeywell Technology Solutions Lab, Bangalore	Software Engineer	Apr 2013 - Aug 2013
TRX Technologies India Pvt Ltd, Bangalore	Software Engineer	Dec 2010 - Apr 2013

EDUCATIONAL DETAILS

Examination	Year	University/Board	Percentage
BTech in Computer Engineering	2007-2010	Rajasthan Technical University, Kota	70.73% (Honors)
Polytechnic Diploma in Electronics & Communication Engineering	2003-2006	Board of Technical Education, Rajasthan	68.89%
Senior Secondary School – (12 th)	2003	Board of Secondary Education, Rajasthan	72.92%
Secondary School – (10 th)	2001	Board of Secondary Education, Rajasthan	77.17%

TECHNICAL PROFILE

Skills	Tool	OS
Programming : C, C++ Technologies : Win32, WTL, STL, MFC, COM Scripting : NSIS (Installer script), Python Database : MySQL, MongoDB, sqlite3 Web : HTML, PHP, CSS, JavaScript, NodeJS and WAMP	<ul style="list-style-type: none"> • Visual Studio • CC, CQ, SVN, Git, Jira, Confluence • Wire Shark, Mib Browser, Bus Hound 	<ul style="list-style-type: none"> • Windows (XP/7/8/10/11)

PROJECT DETAILS

Zscaler, Bangalore

Roles and Responsibilities:

- Analysis and design for new requirements.
- Cross platform feature implementation.
- Work with tech support team to handle customer issues/escalations.
- Unit testing, bug fixing and code review of the developed module.
- Mentor team members and work closely with other stakeholders such as CI, cloud, CST etc.

1 Zscaler Client Connector

Technologies: C++, C#, Python, cloud

Zscaler client connector is a multi-platform (Windows/Mac/iOS/Linux) application designed to provide secure and reliable access to the Zscaler cloud security platform. It provides users with secure access to corporate resources, applications, and the internet while ensuring compliance with security policies.

McAfee, Bangalore

Roles and Responsibilities:

- Analysis and design for new requirements.
- Feature implementation for scan modules/engine.
- Handle customer escalation with fast pace.
- Unit testing, bug fixing and code review of the developed module.

1 McAfee Real Protect

Technologies: C++, Python, cloud, sqlite3

The Real Protect scanner inspects suspicious files and activities on client systems to detect malicious patterns using machine-learning techniques. The scanner uses this information to detect zero-day malware.

HP Inc., Bangalore

Roles and Responsibilities:

- Interacting with stockholders (overseas team, f/w, tech marketing) for requirement gathering.
- Requirement grooming and preparing the RQ document.
- Participate in release and sprint planning.
- Design and development of the project.
- Handling and mentoring a team of 4 developers.
- Unit testing and bug fixing of the developed module.

1 HP Universal Printer Driver

Technologies: Win32, C++, SNMP, WSD, USB, HTTP, TCP/IP

HP UPD is an HP flagship product that works for all printer families on windows OS. It uses windows V3 printer driver architecture underneath and enables a user to use the printer over USB, network (using both Standard TCP/IP and WSD) and point and print.

2 Status Notification Panel

Technologies: Win32, C++, SNMP, WSD, USB, HTTP, TCP/IP

SNP is a standalone application that provides status for both printer and print jobs. It is invoked automatically when a print job is fired on any HP UPD print queue. It can also be invoked manually from program shortcuts or tray icon.

3 Tools

Technologies: Win32, C++, NSIS Scripts, Batch scripts

Develop and maintain tools like DDU (Driver Deployment Utility), DCU (Driver Configuration Utility), etc. for easy deployment. Also, develop in-house tools to improve and speed up the dev process.

4 Intranet Web Portal

Technologies: HTML, CSS, bootstrap, JavaScript, NodeJS, MongoDB

Developed role-based web portal for internal use. This portal is used to submit paper, IP, hackathon.

Samsung R&D Institute India, Bangalore

Roles and Responsibilities:

- Interacting with stockholders (f/w, HQ) to understand new feature/hardware spec introduced in next printer family/series.
- Updating SRS based on the new requirement which is an outcome of the above step.
- Design and development of new modules.
- Unit testing and bug fixing of the developed module.
- Maintain projects in such a way that those remain compatible with both old and new products.

1 Easy Driver Update

Technologies: WTL, C++, SNMP, HTTP, TCP/IP

EDU (Easy Driver Update) is a windows application that is being used to update the printer drivers/applications from a NW printer. It has the ability to install an update based on certain criteria. Also, it can schedule a task in window task scheduler which can check for an update periodically.

2 Lite Status Monitor

Technologies: WTL, C++, SNMP, HTTP, TCP/IP, WSD, USB

LiteSM (Lite Status Monitor), it is an essential part of printer driver which provides status for both printer and print jobs. It works in both USB and NW environments using DeviceControl and SNMP respectively. It directly interacts with FW (at low level) and provides a user-friendly status.

It has a lot of features like showing error messages (e.g., paper jam/toner low etc.), showing printer User/Troubleshooting Guide, download and show "web user guide" in absence of local user guide.

3 Tools

Technologies: WTL, C++, NSIS scripts, Batch Scripts

Developed and maintained tools like EDU packaging utility, patches, OCR wrapper, OCR test tool, etc. Also, I have developed in house tools like "Office Time Monitor", "RC updater", "String Merger" etc.

TRX Technologies, Bangalore

Roles and Responsibilities:

- Interacting with clients to gather and groom the requirement.
- Creating FRD and SRS Document.
- Design and development of projects and write scripts within the CORREX platform.
- Unit testing and bug fixing of the developed module.
- Involved in UAT to fix the issued raised during UAT.
- Troubleshooting the production issues with minimal TAT.

1 Online Reservation Setup

Technologies: C++, Oracle 9i and CORREX (On Galileo GDS)

Client: American Express Australia

Online Reservation Setup performs e-ticketing for online PNRs with several other quality checks. It checks TAW (Ticket at Wish) to identify ticketed/Un-ticketed PNRs, validates fare details like a credit card, identifies PNR that requires an exchange of MCOs. After all quality checks, it adds ticketing confirmation remarks in PNR for further direction. It Updates error database every time if an error occurs during the ticketing process and reports it in the form of remarks for agent review to get them corrected. It sends the confirmation of successful ticketing to travelers and updates the reporting database which reflects in the form of reporting site to a client.

2 Schedule Change and Refund

Technologies: C++, Oracle 9i and CORREX (On SABRE GDS)

Client: Despegar (US)

This project was aimed to automate the process of schedule change of a flight and informing the traveler accordingly. It identifies the type of schedule change in the ticketed PNR based on the itineraries present in it and allows CORREX to act accordingly. CORREX accepts minor schedule changes and rejects the major schedule change to Agent for manual intervention. It informs travelers through email (for minor schedule change) and Agency (client) as well (for both minor and major schedule change).

ACHIEVEMENTS

- Cleared **Advanced Level Software Certificate** in Samsung India R&D Institute in 2016.
- Awarded by Employee of the Month at Samsung twice (first was within three months of joining).
- Awarded by star performer (thrice) at TRX Technologies in two years.
- Awarded by the best performer of the month for successfully decreasing the machine cycle time up to 10-12 seconds of each machine in the machine department at Maruti Suzuki India Limited, Gurgaon.
- Gold & Silver Medalist in 100mtr & 400mtr race in state-level college competition.

Place: Bangalore

(Rajendra Singh)