Shikha Dwivedi
Senior Software Developer
NTT DATA, India

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Overview:

Over 3+ years of experience in the IT industry as C++ developer
Currently I am working for NTT DATA since **January 2022** as Senior Software Developer for client BMW. I have also worked with Siemens, Pune from **July 2019 to January 2022** as Software Developer where I have experienced development of software by working on the Rail Domain Project Trainguard PTC (Positive Train Control).

Work Experience:

- Good background in Object Oriented programming with C++.
- Hands on experience of C/C++ with QT library framework.
- Good Understanding of Rail Domain.
- Analyzed and resolved many PBIs and user stories.
- Successfully delivered around 200 critical and high priority defects.
- Excellent debugging skills.
- Worked on Component design Document.
- Worked on tickets or incidents.
- Worked on implementations of various new features.
- Collaborated with German and US foreign partners.

Rewards & Recognition:

Star Point Award

Received Star Point Award for astounding individual contribution in project among team size of 30+ members.

Technical Skills:

Tools and IDEs
- QT Framework
- IBM Rational ClearTeam Explorer
- Code Collaborator
- IBM Rational Team Concert
- DOORS
- Jenkins
- Wireshark
- Visual studio 2015
- Carisma/ Prisma
- Nagios
- Catia

Other Technologies

- C
- SQL and PLSQL
- Core Java
- DBMS
- Data Structure

Projects:

Project:	BMW Geometrical development and data management (GDDM) at NTT data, Pune (Jan 2022 – till date)
Description	**Components of BMW GDDM:** • Carisma • ZKUtil **CARISMA** • CARISMA supports work with CATIA V5 in conjunction with PRISMA. • A central component of CARISMA are the CARISMA containers in which (sub-) constructions are stored and transported between CATIA V5 and PRISMA **ZKUtil** • ZKUtil is an acronym that stand for ZeichnungskopfUtility (translated: Title block Utility). • ZKUtil is a control logic for title block generation at BMW Group and its' suppliers. • ZKUtil is a collection of several s.cripts which are used by different applications working in different Environments at BMW for generating title blocks.
Role and Responsibilities	• Worked on both components Carisma and ZKUtil. • Did training on CATIA. • Based on customer requirements, analyzed several defects, and successfully resolved the defects. • Implemented new feature added by customers. • Provided support to end users.

Project:	Trainguard - Positive Control Train (PTC) at Siemens, Pune (July 2019 -January 22)
Description	**Positive Train Control (PTC)** PTC is an overlay system used to increase a train's overall operational safety. The Trainguard PTC Onboard Unit (OBU) is the vital PTC system on the locomotive that protects the train against various accidents, which are primarily the following • Train – to – train collision due to exceeding limits of authority • Over speed derailments • Incursion into established work zone limits • The movement of a train through a main line switch in the improper position **Trainguard PTC OBU Components** • Human Machine Interface (HMI) • Data Management Computer (DMC) • Automatic Train Protection (ATP)

	HMI • Non –vital component • Compact computer including graphical display. Provide a user interface (i.e., display output, key inputs) to the OBU for use by train crew. **DMC** • Non – vital component of OBU, not related to user machine interaction • Communication between external systems and OBU. Act as a central point of storage of key data and the engineering tools interact with the DMC to access this information. **ATP** • Vital component of OBU. • Implements PTC relevant logic. Handles the external interfaces by tasks processing the received and transmitted data.
Role and Responsibilities	• Worked on all three OBU components. • Based on customer requirements, analyzed several defects, and successfully resolved the defects. • Resolved minimum 3 defects per sprint. • Implemented new feature added by customers as per SCRF(Software change request form) • Written Unit test for testing some new features of all three OBU component. • Resolved 200+ **defects** keeping best practice of development to achieve customer requirements. • Updated component design document of HMI. • Worked on some critical defects of severity 1. • Found some conflicts in requirements, informed system engineer about that. • Since it is safety critical project, before delivering any code changes, done two level testing - Unit testing and integration testing.

Education Qualification:

Master of Computer Application Session **2016-2019** from National Institute Of Technology, Jamshedpur (Jharkhand) with **8.36/10 CGPA**.

Bachelor Of Science Session 2012-15 from KVM P.G. College, Kanpur (Uttar Pradesh) with **61.38 %.**

Senior Secondary Education from Netajee Dfnce Academy, Gorakhpur (Uttar Pradesh) in **2012** with **70.4%**.

Matriculation from RSM Hr Sec school, Gorakhpur (Uttar Pradesh) in **2010** with **8.0/10** CGPA.

Declaration:

I hereby declare that the above-furnished information is true to the best of my knowledge.

Name: Shikha Dwivedi   Place: Basti, UP