

Mr Amrendra Kumar, (IBM India Software Lab)

Summary of Qualifications

- ❖ 12 years of profound development experience in **C++/11/14/17, Dockers, Jenkins, AWS, Linux, Windows, Multithreading, Thread Synchronization, Signals, IPC, Socket Programming, Data Structure, Design pattern and C++ STL.**
- ❖ Proficient knowledge & experience in C++11/14/17, Golang, AWS Developer, Docker, Jenkins.
- ❖ Proficient knowledge & experience in Multithreading, Thread Synchronization, Signals, IPC, Socket Programming, Data Structure, Design pattern and C++ STL.
- ❖ This involves using Jenkins, likely for continuous integration and continuous deployment (CI/CD), to automate the building of the Magen C++ source code for different operating systems.
- ❖ Docker for Source Code Building and Distribution.
- ❖ Utilizing Docker for building Magen C++ source code on various platforms such as RHEL, SUSE, and Windows. After building, the binaries and source files are pushed to Artifactory, a repository manager
- ❖ Experience in Adaptive Autosar Diagnostic for automotive infotainment system.
- ❖ Experience in Storage domain application Software Development & Integration.

Tools & Technology Expertise

Coding Languages	C++11/14/17, Golan, AWS, Dockers, Jenkins
Operating Systems	Linux, Windows
IDE	Visual Basic, Eclipse, Notepad++, Vim,
Software Tools	GDB, putty, Octo build, Davinci configurator
Versioning System	Git, GitHub, SVN
Open-Source Tools	VM virtual box, VMware workstation player

Project Experience

Project name: Magen-CPP	Duration: Current Project since June 2022
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Role	Software Developer at IBM India software Lab
Project Summary	Project Information: Data Privacy (Magen-cpp) aims for efficient memory management by minimizing heap memory usage, relying on pointers and references for dynamic behavior, and following principles like stack allocation and singleton patterns. This strategy can lead to more predictable memory handling and potentially better performance in certain scenarios.
Product	Magen-CPP
Platform	Linux and Windows
Tools	C++, VSCode, GIT, MySQL, SQL, Oracle, CPD cluster, GDB
Responsibilities	<ul style="list-style-type: none"> ➤ Developing features in C++ for masking the data in different formats. ➤ This Product develops from scratch ➤ Implemented many new features as per requirement for masking state driver license ➤ Fixed number of issues reported customer. ➤ Developed unit test cases for help testing the features implemented by me.

Project name: Adaptive Autosar Diagnostic		Duration: Sep 2019 – May 2022
Role	Technical Lead - Product Development	
Project Summary	<p>Project Information: Diagnostics is required to be performed on all ECUs to ensure there is no issue with any electronically controlled component of the vehicle. Any issue encountered by the automotive ECU is stored as Diagnostics Trouble Code (DTC) in the Electrically Erasable Programmable Read-Only Memory (EEPROM). These codes can be retrieved later using an automotive diagnostic tool. • Diagnostic stack is made of below mentioned two main building blocks according to UDS ISO 14229-1.</p> <p>1. Diagnostic Communication Management (DCM) When an automotive ECU receives a diagnostic request from the tester tool, the DCM pre-processes it. While it handles majority of the requests, any other request is routed to the functional software cluster (SWC).</p> <p>2. Diagnostic Event Management (DEM) DEM is responsible for storing and processing diagnostic errors (events) and all the data associated with it. In addition to it, DEM provides the diagnostic trouble codes (DTC) to the Diagnostic Communication Manager (DCM) as and when required.</p>	
Client	Harman	
Platform	Linux	
Tools	C++, Linux, GIT, Gerrit, GDB	
Responsibilities	<ul style="list-style-type: none"> ➤ Developing ECU store diagnostics trouble code in EEPROM features in C++ ➤ Implemented many new features as per requirement of client ➤ Fixed number of issues reported by different customers. ➤ Developed unit test cases for help testing the features implemented by me. 	

Project name: EMC VNX		Duration: May 2017 – Sep 2019
Role	Consultant	
Project Summary	VNX is EMC's unified storage platform meaning it has the ability to provide both block and file level storage. And mainly worked on different type of layer if driver related like mirrorView and sancopy. Most management tasks are conducted using a web GUI named Unisphere.	
Client	EMC	
Platform	Linux, Windows	
Tools	source insight	
Responsibilities	<ul style="list-style-type: none"> ➤ Coding for improvement plans ➤ Bug fixing for issues faced by customer and testers ➤ Basic and regression testing 	
Project name: HUMSUM		Duration: Jun 2015 – may 2017
Role	Senior Software Engineer	
Project Summary	<p>HP Smart Update Manager (HP SUM) is an innovative tool for firmware and driver maintenance on HP ProLiant and Integrity Servers, BladeSystem enclosures, Moonshot systems, and options. It provides a browser-based GUI or a command-line scriptable interface for increased flexibility and adaptability to customer needs.</p> <p>HP SUM has an integrated discovery engine that finds installed hardware and current versions of firmware and software on target servers and identifies associated targets that should be updated in conjunction with each other, to avoid interdependency issues.</p>	
Client	HPE	
Platform	Linux, Windows, QT	
Tools	Visual Basic Studio C++, Vi Editor, SVN	
Responsibilities	<ul style="list-style-type: none"> ➤ Developing security features in C++ ➤ Development of the GUI using Jscript and HTM, understanding of feature and functionalities support, debugging and fixing of the issues/bugs ➤ Implemented many new features as per requirement of client (mainly for HP, Bloomberg) ➤ Fixed number of issues reported by different customers. ➤ Developed unit test cases for help testing the features implemented by me. 	
Project name: Ericsson		Duration: Dec 2013 – Feb 2015

Role	Software Engineer
Project Summary	EAM is used to set up connections with Network Elements (NE) of type AXE via different protocols. It consists of EAC and External Access Handlers (EAH), EHM, EHT, EHIP, EHAP and EHMS for AXE. EAM core functionalities are Command and Response Handling, File Access and Subscription Handling. EAM provides external interfaces to C++ applications and Java applications to connect to nodes.
Client	ERIC_PLATFORM
Platform	Linux
Tools	Eclipse, ClearCase, Cygwin, Citrix, Netsim
Responsibilities	<ul style="list-style-type: none"> ➤ Coding for improvement plans ➤ Bug fixing for issues faced by customer ➤ Basic and regression testing ➤ Report generation such as Coverity and Bullseye. ➤ Clear case activities and Core dump analysis. ➤ Node creation and maintenance ➤ Documentation of development process.
<div> <div>Project name: Hp_iss_Nsp</div> <div>Duration: Jan 2012 – Dec 2013</div> </div>	
Role	Software Engineer
Project Summary	Project is aimed at developing APIs and command line applications for accessing and configuring CNA cards supporting iSCSI, FCoE and NIC functionality. I am working as a developer for building a command line application compatible for both Windows and Linux. Implementation is in C++. The subsidiary task is testing of NIC drivers of different vendors, being used by HP and report problem to the concerned vendor. It also aims at developing different online firmware up-gradation tools. Implementation is in C++.
Client	HP
Platform	Linux, Windows, QT
Tools	Visual Basic Studio C++, Vi Editor, SVN
Responsibilities	<ul style="list-style-type: none"> ➤ Development of work packages ➤ Work on defects raised by Customer. ➤ Debug and resolve issues related to product ➤ Handling different Office profiles.

Professional Experience

IBM India Software lab	June 2022 - Till now
Harman Connected Services, Bangalore	Jan 2020 - May 2022

Cappgemini Pvt Ltd.	May 2017 - Sep 2019
Mphasis Pvt Ltd.	June 2015 - May 2017
Wipro Pvt Ltd.	Oct 2011 - Feb 2015

Education

Degree	University/Board	Year of Passing
B.E(Information Technology)	MDU, Rohtak	2010
H.S.C	BIEC, Patna	2005
S.S.C	BSEB, Patna	2003

Advanced Training

- Completed training on C++11/14/17
- Completed training on GoLang
- Completed training on Basic Java
- Completed training on Perl

Area of Interest

- Playing cricket and Badminton, Driving bikes and cars

Personal Information

Date of Birth: 02 DEC 1988
 Marital Status: Married
 Pan Card Number: BXOPK4074Q
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Declaration

I hereby declare that above-mentioned information is correct up to my knowledge and I bear responsibility for the correctness of the above-mentioned particulars.

Place: Bangalore

Amrendra Kumar