

## Karthik Ayyagari

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## TECHNICAL SKILLS

**Languages:** C, C++, Core Java, Embedded C, Node.js, Shell Scripting, SQL

**Operating System:** UNIX, Linux (Red Hat and Wind River) and Windows.

**Database:** Microsoft SQL Server 2019, Oracle 12.9

## YEARS OF EXPERIENCE

12+ Years

## PROFESSIONAL SUMMARY

### System Design and Development

Application development, Code review, Software Requirement specifications, Program Specifications and Test Plans, Functional, Modular and unit testing, Maintenance and Support.  
Coding / Programming from high level design documentation

### Tools

JIRA, Jenkins, Autosys

GCC, Make Utility,

**Debugging** - Valgrind, GDB

**Automation Testing** - ANVL, IXNetwork-FT and IXExplorer, Test Automation framework (TAF)

**Authoring** - HP Quality Center

### Configuration Management Tools worked on till date

SVN, GIT, CVS

### Methodologies worked till date

Agile, waterfall

## WORK SUMMARY [TCS (2010-2016), HCL(2016-2022), LTIMindTree (2022-Till date)]

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- Prototyping
- Study of requirements for feasibility and architecture compliance
- Code review and testing
- Mentoring team members
- Design and code review

### Project #1

**Title:** Infor Pegasus(2.1 years) [2020-22]

**Company:** HCL Technologies Ltd.

**Environment:** VFP, MS SQL, OPERA, CAPITAL GOLD PAYROLL, XRL, CAPITAL GOLD ACCOUNTS.

Responsibilities: Tech Lead

- Worked on Opera application which contains CRM, SCM, financials, payroll modules; Capital Gold Payroll and actively involved in Testing (QA)
- Performed XRL testing which links Opera with MS Excel to import live data into spreadsheet.
- Been a good performer in QA and won several accolades and Exceptional rating from the Management.

## Project #2

**Title: JDA(9 months)** [2019]

**Company: HCL**

**Environment: C++, Oracle PL/SQL, JIRA tool**

**Responsibilities:**

- Senior Developer

It deals with cargo shipping.

-Worked on testing several modules of Revenue optimizer.

## Project #3

**Title: NCR (2 months)** [2019]

**Company: HCL**

**Environment: C++, JIRA tool**

**Responsibilities:**

- Senior Developer

It deals with Bill payment System.

-Worked on testing several modules of Bill payment system.

## Project #4

**Title:Allianz (1.1 years)** [2016 Dec - 2018 Feb]

**Company: HCL**

**Environment: C++, Shell scripting, MySQL**

**Responsibilities:**

- Technical Lead
- Code analysis and structural understanding
- Development of Software module dependent on C++ with the Accent-R (language wrapped over object oriented classes using C++) design.
- Refactoring of existing software modules with refactoring & configuration for Multiple software variants.
- Writing functional and unit test cases.

## Project #5

**Title: Qualcomm-LTE Project (6 months)** [2016 June - Nov]

**Company: TCS**

**Environment: C++, Node.js, Jenkins and Jira, GIT**

**Responsibilities:**

- Developer

It deals with communication restriction to particular area.

-Developed communication servers with Node.js modules with which users can be on-boarded and user information can be validated

- Hands-on experience in MongoDB and Cassandra distributed data bases.

## Project #6

**Title: Bank of America Continuum Solutions (BACI) (6 months)** [2018 March - Oct]

**Company: HCL**

**Environment: Java, Risk Engines, Jenkins, Jira, GIT**

**Responsibilities:**

- Development

It deals with calculation of risk in real time.

- Need to report whenever risk is critical after the job run.
- Involved in fixing some of the critical issues which helped project bigtime.

### Project #7

**Title: CITIbank (1.6 years)** [Apr 2022- current]

**Company: LTIMindTree (Current)**

**Environment: C++, MS SQL, Sybase, Scripting languages**

**Responsibilities:**

- Needs to work on binaries(C++) which do specific task and ensure they are working fine and generate feeds or do specific functionality.
- Script changes to suit DB.
- Migration to different RHEL and databases like Sybase and SQL

### Project #8

**Title: Ericsson CPP R&D (3 years)** [2014 May - 2016 May]

**Company: TCS**

Ericsson involves challenges like developing embedded software for functionality, debugging real time high priority issues and supporting the customer in analyzing and benchmarking the product.

**Environment: C, Embedded Systems, Shell scripting, Unix, OSE RTOS, PL/SQL, GIT**

**Responsibilities:**

- Developer and QA

Ericsson Connectivity Packet Platform (CPP) is a platform product for high availability applications to be used when developing ATM (Asynchronous Transfer Mode) and IP (Internet Protocol) based nodes.

- Hands on experience in working with and reconfiguring embedded software for multiple variants of boards
  - Evo Controller 8000 (EPB1)
  - GPB(General Purpose Processor Boards).
- Implemented Machine check exception functionality
  - Performed Software configuration for various board Variants
- Debugged priority problems by studying and understanding PowerPC manuals.
- Analysing post mortem dump(PMD) generated after error has occurred.
- Worked on various erratum's which help in resolving critical issues.
- Contributed towards development of device drivers and customer related technical discussions, grooming, solving all technical queries.
- Worked with UART interface for cost saving initiative to implement RS232 hardware in FPGA.

- Driven the implementation of hard disk change request where an alarm is being raised when a hard disk is faulty.
- Implemented ECC (Error check and correction) mechanism for DDR memory controller (DDR SDRAM).
- Handled L1/L2 cache errors present in multi core processors.
- Hands-on experience on Interfaces - I2C, Ethernet, RS232 and RS485.
- Processors - MPC8548E, MPC8572E and MPC8641
- Cores - e500 and e600

## Project #9

**Title: Nokia Solutions Networks Project (4 years)**

[2011 Feb -2014 April]

**Company: TCS**

**Environment: C, C++, XML, Design Patterns, Linux, Shell scripting,**

**LDAP, Oracle PL/SQL, Jenkins, Jira tool, SVN**

**Responsibilities:**

- Developer, QA and Support

The Flexi platform is a server-side platform that provides capabilities to build various network-element applications targeted towards the IP-based platform market.

- Worked on object management and development for different protocols such as BGP, OSPF and MPLS etc.
- Majorly contributed towards customer technical discussions, grooming, writing functional test cases, solving all technical queries.
- Performed the protocol conformance testing for L3VPN and OSPF using ANVL (Automated Network Validation Library).
- Involved in various types of testing - Functional, Regression, Scenario, Client-server based for OSPF, BGP (Using IXNetwork-FT and IXExplorer) and L3VPN (Juniper)
- Variants - X86, X86\_64 and mips (32 and 64).