



# Dheeraj Jha

Lead Software Engineer | C++ | AWS

Member of LITD 15 - Bureau of Indian Standards(BIS)

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## Career Summary

Dheeraj Jha is a **seasoned software engineer** with over **13 years** of experience in **designing, developing**, testing, and supporting software products across diverse **industries, including security, automobile, and finance**. He is a **proficient C++ developer** with a strong foundation in **Object-Oriented Programming** concepts, **data structures, multi-threading**, and **system programming**. These days he is developing an **IoT platform** which can be used in different domains.

Dheeraj is also well-versed in different OS platforms like **Linux & Windows** and database management in **MySQL and SQL Server**. His proficiency in **scripting languages** like **Python** and **JavaScript**, and **front-end technologies** like **HTML, CSS**, and **JSON** makes him a versatile developer.

Dheeraj's **leadership skills** are demonstrated by his success in conducting **in-depth code reviews, mentoring teams**, and **collaborating with business and subject matter experts** to translate requirements into technical solutions. With his solid understanding of **business modeling, SDLC processes**, and **performance tuning**. Dheeraj has proven himself as a **valuable contributor to the design and implementation of successful solutions**.

In addition to his professional accomplishments, Dheeraj is also a **founder and core organizer** of **CppIndia**, a vibrant community of C++ developers. He has presented several talks and hosted 2 successful conferences, **CppIndiaCon**, which have become milestones in the community's history.

## Technical skills

Technical	Proficiency	Value-Added Skills
<b>Languages:</b> C, C++(11/14/17), Python <b>Platform:</b> Linux/windows <b>Database:</b> RDBMS(MySQL), No-SQL(MongoDB, DynamoDB) <b>SDK/Libraries:</b> AWS IoT sdk(C++), AWS SDK(C++), Paho, protobuf, nng, mosquito broker <b>Cloud Services:</b> AWS(IoT Core, S3, Lambda, DynamoDb etc) <b>Front End:</b> HTML, XML, CSS, JSON <b>CI/CD:</b> SVN, Git, GitLab, Bitbucket, Bamboo <b>Reporting and Project management:</b> JIRA, Lotus Notes, Redmine	<ul style="list-style-type: none"> <li>- Solid knowledge of <b>IoT product/application</b>.</li> <li>- <b>Architectural design</b> (<i>Monolithic/Micro-services/Layered/Client-Server Architecture</i>).</li> <li>- Development and design experience of system and application programming</li> <li>- Object Oriented Programming concepts (<b>OOPS</b>), <b>STL</b>, <b>data structure</b>, <b>Multi-threading</b>, <b>system programming</b>.</li> <li>- <b>Networking</b> fundamentals</li> <li>- <b>Design Patterns</b> (Singleton, Observer, Factory, etc.)</li> <li>- Conducted <b>POC</b> tests to validate technical feasibility.</li> </ul>	<ul style="list-style-type: none"> <li>- <b>Mentored and supervised</b> a team of 5 for timely module deliveries and cross-functional collaboration.</li> <li>- <b>Built team skills</b> through effective mentoring and team-building initiatives.</li> <li>- <b>Contributed to successful project implementation</b> through board bring-up activities.</li> <li>- <b>Analyzed stakeholder, system, and design requirements</b> for alignment with project goals.</li> <li>- Created and maintained comprehensive <b>documentation of requirements</b>.</li> <li>- Provided <b>accurate functional estimation</b> for resource allocation and project planning.</li> <li>- <b>Translated business functional requirements into technical specifications</b>.</li> </ul>

## Certification

- ✧ AWS Certified Solutions Architect - Associate
- ✧ AWS Certified Cloud Practitioner

## Academics

- ✧ PG Diploma from CDAC-ACTS, Pune in System Software Development in 2011.
- ✧ B.Tech in Electronics and communications in 2009.

## Professional

**Company Name** – Capgemini Engineering

**Designation** - Technical Lead

**Period** - Dec 2021 to till now

**Location** - Bangalore

### Key Responsibilities

- ✧ Designed and developed an **IIoT** device for a client, demonstrating expertise in the field.
- ✧ Translated business functional requirements into comprehensive technical specifications.
- ✧ Took responsibility for **product design**, specializing in the **gateway layer** (Northbound) using **C++ (11/14/17)**.
- ✧ Created **AWS infrastructure** to support the product, ensuring efficient operation.
- ✧ Showcased web technology proficiency by **developing a proof-of-concept web application hosted on AWS EC2**.
- ✧ Conducted customer **demonstrations** with exceptional presentation skills, effectively showcasing the product's capabilities.
- ✧ **Led integration testing** and conducted multiple demonstrations to customers and leadership teams, **including C-level executives**, following **Agile methodology**.

### Skill Used:

Linux, C, C++, IIoT, AWS C++ SDK, AWS services(IoT Core, Lambda, S3, API Gateway, IAM, DynamoDB, etc), Socket, Multi-threading, mosquitto broker, paho lib, nng lib, MQTT, JSON, ProtoBuf, docker, container

### Achievements

- ✧ Successfully implemented the Cloud Abstraction layer for an IoT device from scratch.
- ✧ I am the one who wrote main() of the application.
- ✧ Got several appreciation from customer. Read [recommendation by John Kulpinski](#)

**Company Name** – GE Healthcare

**Designation** - Sr. Software Engineer

**Period** - Jun 2021to Dec 2021

**Location** - Bangalore

### Key Responsibilities

- ✧ Handling and mentoring team.
- ✧ Working as a product owner.
- ✧ POC of different modules.
- ✧ Requirement gathering and User Story grooming
- ✧ Preparing requirement and design document
- ✧ Detailed code review.
- ✧ Delivering module on time with quality.

### Skill Used:

Linux, C, C++, Socket, multithreading, IPC, queue

**Company Name** - Harman Connected Services Corporation India Pvt. Ltd.

**Designation** - Technical Lead - Product Development

**Period** - Dec 2018 to June 2021

**Location** - Bangalore

**Key Responsibilities**

- ✧ Design and development of different module considering performance and scalability.
- ✧ Analysis, Development and testing (Unit and integration)
- ✧ Mentoring a team.
- ✧ Story writing and requirement gathering.
- ✧ Preparing requirement and design document
- ✧ Detailed code review.
- ✧ Continues interaction with client and delivering module on time with quality.

**Skill Used:**

Windows/Linux, C++, JSON/Protobuff, multithreading, Cloud

**Achievements**

- ✧ Supported almost 8 devices in less than a month. Delivered release on time and received client manager appreciation and Harman BeBrilliant awards.

**Company Name** - PTC Software India Pvt Ltd

**Designation** - Sr. Software Specialist

**Period** - Jun 2017 to Oct 2018

**Location** - Pune

**Key Responsibilities**

- ✧ Design and development of different module considering performance and scalability.
- ✧ POC of different modules.
- ✧ Analysis, Development and testing (Unit and integration)
- ✧ Mentoring and leading team of 5.
- ✧ Story writing and requirement gathering
- ✧ Preparing requirement and design document
- ✧ Detailed code review.
- ✧ Delivering module on time with quality.

**Skill Used:**

Windows, C, C++, C#, MFC, python, visual studio 2008/2012, Compilers SQL Server, Socket, multithreading

**Achievements**

- ✧ Successfully implemented Export-Import module which can migrate >10GB Enabler (Object based DB) data.

**Company Name** - Quick Heal Technologies Ltd

**Designation** - Sr. Software Engineer

**Period** - February 2016 to May 2017

**Location** - Pune

**Key Responsibilities**

- ✧ Requirement analysis and Design of complete system.
- ✧ Analysis of possible ways to implementation.
- ✧ Responsible for coding and testing for different modules.
- ✧ Verify that all the modules as developed as per design.
- ✧ Responsible for code reviews.
- ✧ Co-ordination with different teams (QA, BA etc.) and higher management.
- ✧ Responsible for delivering tool on time.
- ✧ Development of different helper tools which help in testing and development.
- ✧ Preparing requirement and design document.

**Skill Used:**

Windows, C++, MFC, Oups, c#, visual studio 2008/2012 Compilers, sqlite/MySql, cppChecker, JIRA

**Achievements**

- ✧ Successfully designed and implemented Patch management system for Non-MS Products.

**Company Name** - Knorr-Bremse TCI

**Designation** - Sr. Software Engineer

**Period** - June 2014 to January 2016

**Location** - Pune

**Key Responsibilities**

- ✧ Requirement analysis and Implementation.
- ✧ Coding and testing of different modules/components.
- ✧ Performing unit and module testing.
- ✧ Co-ordination with different internal stack holders.
- ✧ Responsible for delivering module on time.

**Skill Used:**

Windows, C++, Oups, VC++ Compilers, Visual Studio Debugger, Oracle 11g, VS 2012, SVN, CommsShow, Unigine

**Company Name** - Bosch Limited (Automotive Service Solutions)

**Designation** - Software Engineer

**Period** - April 2012 to May 2014

**Location** - Pune

**Key Responsibilities**

- ✧ Coding and testing of different modules/components.
- ✧ Performing unit testing.
- ✧ Co-ordination with other team members.
- ✧ Responsible for delivering tasks on time with quality.

**Skill Used:**

Windows, C++, Oups, MFC, VC++ with MFC and win32, Visual Studio Debugger, CANalyzer 7.2, CAN, ISO14229

**Company Name** - Electra Card services (Now known as MasterCard)

**Designation** - Software Engineer

**Period** - December 2011 to April 2012

**Location** - Pune

**Key Responsibilities**

- ✧ Coding and testing of different modules/components.
- ✧ Performing unit and module testing.
- ✧ Fix the bugs if comes at validation point or client side on priority.

**Skill Used:**

Unix, C/C++, gcc, gdb, Socket programming, Multi-threading

**What I do apart from above**

- ✧ Founder of Indian C++ Community for C++ developers – [CplusplusIndia](#)
- ✧ Volunteer in [CppCon 2020](#)
- ✧ Write technical blogs at [www.programminggyan.com](http://www.programminggyan.com).
- ✧ Help students/beginners to grow their learning and career.
- ✧ Convert home waste materials to decorative stuff.
- ✧ Read books.