Dheeraj Jha
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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**.

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
Languages: C, C++(11/14/17), Python **Platform**: Linux/windows **Database**: RDBMS(MySQL), No-SQL(MongoDB, DynamoDB) **SDK/Libraries**: AWS IoT sdk(C++), AWS SDK(C++), Paho, protobuf, nng, mosquitto broker **Cloud Services**: AWS(IoT Core, S3, Lambda, DynamoDb etc) **Front End**: HTML, XML, CSS, JSON **CI/CD**: SVN, Git, GitLab, Bitbucket, Bamboo **Reporting and Project management**: JIRA, Lotus Notes, Redmine	- Solid knowledge of **IoT product/application**. - **Architectural design** *(Monolithic/Micro-services/Layered/Client-Server Architecture)*. - Development and design experience of system and application programming - Object Oriented Programming concepts (**OOPS**), **STL**, **data structure**, **Multi-threading**, **system programming**. - **Networking** fundamentals - **Design Patterns** (Singleton, Observer, Factory, etc.) - Conducted **POC** tests to validate technical feasibility.	- **Mentored and supervised** a team of 5 for timely module deliveries and cross-functional collaboration. - **Built team skills** through effective mentoring and team-building initiatives. - **Contributed to successful project implementation** through board bring-up activities. - **Analyzed stakeholder, system, and design requirements** for alignment with project goals. - Created and maintained comprehensive **documentation of requirements**. - Provided **accurate functional estimation** for resource allocation and project planning. - **Translated business functional requirements into technical specifications.**

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 IIoT 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, Oops, 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++, Oops, 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++, Oops, 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 – CppIndia
✧ Volunteer in CppCon 2020
✧ Write technical blogs at www.programminggyan.com.
✧ Help students/beginners to grow their learning and career.
✧ Convert home waste materials to decorative stuff,
✧ Read books.