



AKASH GOYAL

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PROFILE SUMMARY

- 7.5+ years of extensive working experience in Product Based companies.
- Presently working at VMWare as a C++ developer in a VMWare Blockchain R&D (VMBC) Engineering Team.
- Strong general in C, C++ skills: core language features, STL facilities, and enforce modern C++ practices (smart pointers, RAII, compile-time programming and etc).
- Good at Operating systems, Data structures & Algorithms, Design Patterns, Distributed Systems, High level design and OOP's practices.
- Debugging, including crash and core dump investigation.
- Actively contributing to Open-Source concord-bft consensus algorithm based on scalable BFT.
- Good knowledge of various networking topics like IPv4, HTTP, SSL, DNS, TCP, VPN and etc.

TECHNICAL SKILLS

Data Structures and Algorithms

Languages: C, C++ (11/14), Python (Basic), Shell scripting

Debugging Tools: GDB, Valgrind, CPPCheck, SonarQube

Network Analyzers: Wireshark

Technologies/Frameworks: Linux, Mac, Windows, Jenkins, GitHub, CppUnit, Google test

WORK EXPERIENCE

VMWare

Bengaluru, Karnataka

Member Of Technical Staff III

June 2021 – Present

- Working as a C++ developer in **VMware Blockchain R&D (VMBC)** Product.
- Implemented db-snapshot feature, which takes most recent snapshot of rocksdb database and use it to restore faulty replicas.
- Implemented state transfer feature, where lagging replica's fetch blocks and join consensus network.
- Contributing to VMWare Blockchain opensource project concord-bft consensus algorithm based on SBFT (<https://github.com/vmware/concord-bft>)
- Set up a code coverage server to generate code coverage reports periodically.
- Actively Involved in problem solving, coding, design of VMWare Blockchain product.
- **Environment:** C++ (11/14), STL, Multithreading, Data Structures & Algorithms, Python, GTest Framework, Linux, Mac, Docker and Prometheus Metric.

Siemens Technology

Pune, Maharashtra

Software Engineer

Sept 2019 – June 2021

- Worked as a C, C++ developer in **Positive Train Control (PTC)** Product.
- Implemented an API used to find the shortest and most unique path from a rail track database.
- Used wireshark to analyse TCP/UDP packets for real-time based communication.
- Refactor and optimise the legacy code after running static analyzer tool like Sonarcube.
- Implementation and enhanced of SIL4 device ATP (Automatic Train Protection) and HMI visualization solutions for US railway systems.
- **Environment:** C, C++11, STL, Multithreading, Python, CppUnit Test Framework, QT, Wireshark

Hughes Systique Corporation

Gurugram, Haryana

Senior Engineer

March 2018 – Aug 2019

- Worked as a C++ developer in **Qubo Smart Indoor Camera (R&D)** Product.
- Developed and implemented an OOI, ROI, Rules, Scenes and Modes features for an IoT Smart Indoor Camera.
- Improved effectiveness and accuracy of the overall product after monitoring memory corruptions, memory leakage and analyzed core dumps using GDB, Valgrind and CppCheck tool.
- Worked with RESTful API's.
- **Environment:** C++ (11/14), STL, Multithreading, JNI, MYSQL, Data Structures and Algorithms, Linux.

Collabera Technology

Software Engineer

Pune, Maharashtra

July 2017 – March 2018

- Worked as a C++ developer in **Philips IntelliSpace** Product.
- Developed and implemented feature for Digital Breast Tomosynthesis (DBT).
- Followed agile methodology of development, I was part of a Scrum team, contributed individually to the team.
- **Environment:** C++11, STL, Multithreading, MSSQL Server, Data Structures and Algorithms and Linux.

KPIT Technologies Ltd

Software Developer

Pune, Maharashtra

April 2015 – June 2017

- Worked as a C, C++ developer in **Cummins INSITE** Product.
- Developed and enhanced INSITE security features, LCT (License Configuration Tool), Cummins Digital Signature and given maintenance(which involved fixing customer issues, analyzing core dumps, debugging and solving them)..
- Developed tools and utilities to aid in the development process.
- **Environment:** C, C++11, STL, Data Structures and Algorithms, MYSQL, Windows.

EDUCATION

PG Diploma in Advanced Computing

Aug 2014 – Feb 2015

Centre for Development of Advance Computing (CDAC), Pune, Maharashtra

B.Tech in Electronics and Communication

Aug 2009 – May 2013

Lovely Professional University, Jalandhar, Punjab, CGPA: 9.09/10.00

XII(Senior Secondary) Science

April 2008 – June 2009

CBSE Board (Holy Public School, Agra, Uttar Pradesh), Percentage: 86.20

HONORS RECEIVED / ACHIEVEMENTS

- Received an Elevate award for the contributions in delivering db-snapshot feature, VMware.
- Received Kudos award for the DAML message size estimation feature, VMware
- Received an Elevate award for the contributions in State transfer feature, VMware.
- Received an appreciation for individual contribution in Moving block, Siemens.
- Facilitated with top performer award for implementing OOI feature, HSC.
- Received yearly Achievers award within organization, HSC