Akash Goyal

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PROFILE SUMMARY

- 7.5+ years of experience in developing software using C, C++, Linux and Windows.
- Experienced software developer with background in blockchain, IoT and automotive domain.
- Experience creating large-scale distributed systems, as well as knowledge of distributed system architecture for scalability, performance, and consistency.
- Experience working with both onshore and offshore clients, as well as becoming proficient in AGILE and Scrum methodologies from requirement gathering to production releases.

TECHNICAL SKILLS

Data Structures and Algorithms

Languages: C, C++(11/14), VC++, Python (Basic), Core Java (Basic)

Testing Framework: CPP unit test, Google test

Core Concepts: Data Structures, Algorithms, Object Oriented System Design, Distributed System development and Inter

Process Communication(IPC)

Developer Tools: GCC, GDB, Valgrind, Coverity, CPPCheck, SonarQube, Git, Docker, Jira, Confluence, VS Code

Operating Systems: Linux, Unix, Windows

WORK HISTORY

Bengaluru, Karnataka VMware June 2021 – Present

Member Of Technical Staff III

Project: Concord-Blockchain

- Implemented db-snapshot feature, which takes the most recent backup of the rocksdb database and used to restore faulty replicas.
- Implemented state transfer feature, where lagging replica, to fetch blocks from other replica and bring lagging replica to consensus network.
- Actively involved in the development of the open source BFT **concord-bft** library.
- Currently developing end to end demo blockchain using concord-bft as a consensus and Ethereum as an execution
- Set up a code coverage server to generate code coverage reports periodically.
- Implemented test suits for db-snapshot and state transfer feature in python for apollo framework as part of function
- Environment: C++(11/14/17), STL, Multithreading, Python, GTest Framework, Linux, Docker

Siemens Technology

Pune, Maharashtra

Software Engineer

Sept 2019 - June 2021

Project: PTC (Positive Train Control)

- Implemented an API used to find the shortest and most unique path from a rail track database. It is a crucial factor in Moving Block, since it defines the proper direction for the train to take after gaining movement authority.
- 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, Linux and Windows.

Hughes Systique Corporation

Gurugram, Haryana March 2018 - Aug 2019

Senior Engineer

Project: Oubo Smart Indoor Camera

- Develop and implement OOI, ROI, Rules, Scenes, and Modes features for an Smart Camera.
- Improved effectiveness of tools and improved accuracy of code after carefully monitoring memory corruption and memory leakage across the module using Valgrind.
- Experience working with RESTful API's.
- Environment: C, C++11, Multithreading, JNI, MYSQL, Core Java, STL, Linux Platform.

Collabera Technology

Software Engineer

Pune, Maharashtra July 2017 – March 2018

Project: Philips IntelliSpace

- Design and Develop feature for Digital Breast Tomosynthesis (DBT) core and feature enhancement.
- Environment: C, C++11, STL, Multithreading

KPIT Technologies Ltd

Software Developer

Pune, Maharashtra April 2015 – June 2017

Project: Cummins INSITE

- Develop and enhanced the INSITE security features, LCT (License Configuration Tool), Cummins Digital Signature maintenance for the INSITE tool.
- Development of tools and utilities to aid in the development process.
- Environment: C, C++11, VC++, C#, STL, MYSQL, WPF, Multithreading, 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