

GAURAV SAHOO

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Professional Summary

With 11 years of experience, expertise has been developed in C++ and Python, specializing in object-oriented design, data structures, algorithms, and multithreading.

Experience in code optimization techniques such as Algorithmic Optimization, Memory Optimization, Compiler Optimization, Profiling and Benchmarking, Parallelization, and Data Structure Optimization.

Experience in writing secure code, employing techniques such as Secure Data Handling, Buffer and Memory Management, Input Validation, and Input Sanitization.

Excellent collaboration and communication skills.

Committed to continuous learning and staying updated with the latest advancements in software development.

Skills

- **Proficient in Modern C++ Standards:**
Expertise in C++11, C++14, and C++17 features and their practical applications.
- **Advanced Memory Management:** In-depth understanding of dynamic memory allocation, smart pointers, memory leaks detection, and optimization techniques.
- **Design Patterns and Architecture:**
Demonstrated experience in applying design patterns effectively, architecting scalable and maintainable systems, and knowledge of software principles like SOLID.
- **Cross-Platform Development:** Experience developing software that runs seamlessly on various operating systems such as Windows, Linux.
- **Performance Optimization:** Ability to profile code, identify bottlenecks, and implement solutions to optimize both memory and computational performance. Familiarity with tools like Valgrind.

Work History

Technical Consultant

Together Tech

Apr 2023 - Current

Linköping, Sweden

Summary

Working on an in-house project called "Virtual Guide Dog" As part of this project, my responsibilities included providing expertise and guidance on the technical aspects of the development process.

Responsibilities :

- Optimization of overall code to increase performance.
- Advancing software development for assistance device designed for visually impaired individuals.
- Integration and multi-threading of overall functions.

- Conducted bug fixes and resolved issues to ensure high-quality and reliable software performance.
- Created technical documentation for reference and reporting.
- Collaborated with stakeholders to transform client requirements into turnkey solutions.

Technical Lead

Aug 2018 - Mar 2023

HCL Technologies

Pune, India

Summary

As a Technical Lead at HCL, I had the opportunity to work with three different clients: FedEx Australia, IGT Canada, and Siemens PLM India. In this role, I was responsible for providing technical leadership, overseeing software development projects, and ensuring the successful delivery of solutions.

For FedEx Australia, I led a team in the development and implementation of software solutions to improve logistics operations. I collaborated closely with stakeholders to understand their requirements, designed robust architectures, and supervised the development process to deliver high-quality solutions.

At IGT Canada, I took charge of a cross-functional team working on gaming software projects. I facilitated effective communication between different teams, guided the technical decision-making process, and implemented best practices to ensure the successful delivery of innovative gaming solutions.

During my tenure at Siemens PLM India, I led a team focused on developing software solutions for product lifecycle management. I played a key role in driving the development cycle, coordinating with stakeholders to gather requirements, and ensuring that the solutions met the highest quality standards.

Overall, as a Technical Lead within HCL, I leveraged my technical expertise, leadership skills, and client-facing abilities to successfully deliver software solutions for prominent clients such as FedEx Australia, IGT Canada, and Siemens PLM India.

Responsibilities :

- Created slot machine games using advanced features of modern C++.
- Migrated legacy C++ code from HP-UX to Linux Red Hat 8.0 platform.
- Utilized C++ to develop new features for Teamcenter.
- Created CPP unit test cases to ensure proper functioning of existing and newly added features.
- Collaborated with cross-functional teams, including developers and QA engineers, to diagnose and fix bugs in timely manner.
- Prioritized and managed bug fixes based on severity and impact on customers' experience.
- Developed and implemented unit tests using Google Test and CPP Unit frameworks to ensure functionality and reliability.
- Mentored and provided technical support to junior team members.
- Collaborated with stakeholders to build product feature lists.

Software Specialist

PTC India Pvt Ltd

Nov 2016 - Aug 2018

Pune, India

Summary

As a software specialist, I had the privilege of contributing to the development of new features for the Creo application, which is a product of PTC India. In this role, I collaborated closely with a team of talented developers and engineers to analyze requirements, design the feature, and implement it within the Creo application framework.

Responsibilities :

- Developed and implemented new features for Creo application using advanced features of C++.
- Created and executed CPP unit tests to verify functionality and integrity of software components.
- Collaborated with SMEs to identify technical problems.
- Participated in code reviews to maintain code quality, readability, and adherence to coding standards.
- Involved in maintaining and upgrading existing systems.
- Created technical documentation for reference and reporting.

Software Developer

Geometric Ltd

Mar 2014 - Nov 2016

Pune, India

Summary

As a software developer, I had the opportunity to contribute to the development of new features for the Teamcenter application, which is a Siemens product. I worked closely with a team of skilled professionals to analyze requirements, design the feature, and implement it within the application's framework.

Responsibilities :

- Developed features for Teamcenter application using programming language C++.
- Improved systems with addition of new features and infrastructure.
- Conducted bug fixes and resolved issues to ensure high-quality and reliable software performance.
- Updated old code bases to modern development standards, improving functionality.
- Revised, modularized and updated old code bases to modern development standards, reducing operating costs, and improving functionality.

Software Engineer

Credentek Software Consultancy

Sep 2012 - Mar 2014

Pune, India

Summary

As a software developer, I had the opportunity to contribute to the development of new features for the SOA and Loan Provisioning. I worked closely with a team of skilled professionals to analyze requirements, design the feature, and implement it within the application's framework.

Responsibilities:

- Analyse the requirement of the application.
- Develop back end application using C/C++.
- Implement enhancements/bug fixes.
- Improve/stabilize the system.

Education

MBA: Information Technology

Jaipur National University

Jun 2020

Rajasthan

Bachelor of Science: Computer Science And Engineering

Guru Ghasi Das University

May 2011

Bilaspur

Programming Languages

C++, Python, SQL

Operating System

Windows, Linux

Tools

Jira, Jenkins, Git, Version One, Cmake, GDB

IDE

Visual Studio Code, Visual Code, Eclipse

Languages

English



Bilingual or Proficient (C2)

LinkedIn

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