Yash Verma

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Summary

C++ Developer with **3+ years of experience** in building high-performance systems and REST API integrations, skilled in **C++, STL, multithreading**, and DevOps tools like Docker and GitLab CI/CD, focused on delivering scalable solutions by leveraging AI to achieve measurable business outcomes.

Technical Skills

Language: C, C++, Python.
Database: MySQL Workbench, MySQL, DuckDB.
Web Technologies: Django, Html, Css, JavaScript, Bootstrap, Wordpress.
C++ Libraries: STL Collections, OOPS, Conan Package Manager, Threading, Rest API.
Other: Git, Gitlab, Docker, CI/CD Pipelines, Linux, Shell Scripting, JSON, Data Structures and Algorithms.

Work Experience

Aziro Technologies India Pvt Ltd — Feb, 2025 – Present
Software Engineer — *Pune, Maharashtra*

- Developed a POC on DuckDB, a high-performance OLAP database built in C++, to assess its efficiency and applicability for analytical workloads.
- Built a Python web scraper to extract data from multiple e-commerce sites, transformed it into structured JSON, and loaded it into a database for further analysis.
- Technologies used: C++, OOPs, STL, nlohmann JSON, Python, Selenium, Duckdb.

Teligenz Tech solutions Pvt Ltd — Apr, 2024 – Feb, 2025
Software Engineer — *Gwalior, Madhya Pradesh*

- Developed a **middleware application** enabling two-way communication, integrated with **Conan package manager** for easy REST API integration.
- Created **CI/CD pipelines** for building executables and **Docker** images across multiple platforms, and set up necessary tools **(GCC, Docker, GitLab Runner)**.
- Optimized code and implemented logging to improve performance, reduce request-response times, and ensure the system could efficiently support over **100k active users**.
- Technologies used: C++, OOPs, STL Collection, nlohmann JSON, Conan Package Manager, shell scripting, Openssl.

Teligenz Tech solutions Pvt Ltd — Feb, 2023 – Mar, 2024
Junior Software Engineer — *Gwalior, Madhya Pradesh*

- The **single-threaded component** subscribes to data and publishes it to users, reducing traffic by 50% preventing duplicate subscriptions. It also ensures data consistency with failover during primary server downtime.
- Created a **Password Reset Tool** to generate unique passwords for users, preventing duplication, and implemented various REST APIs to generate orders and load books for users.
- Enabled the application with Conan package for seamless REST API integration and optimized code with critical bug fixes to prevent crashes when **loading CSV files**.
- Technologies used: C++, OOPs, STL Collection, nlohmann JSON, Conan Package Manager, REST API.

Projects

Marksheet Management System

- Developed a comprehensive Mark Sheet Management System using File Handling to manage student records.
- Implemented efficient search functionality, enabling quick retrieval of specific student information.
- Built an interactive user panel that supports operations such as creating, deleting, registering, and updating student records.
- Technologies used: C++, OOPs, STL Collection, File Hanlding

Certificates

- Secured Gold Medal in Academics as well as B-Certificate as NSS Volunteer.
- Microsoft Python Certified: Recognized for advanced knowledge and practical experience with Python, validated by Microsoft.

Education

ITM Group of Institutions — Aug 2019 – May 2023
Bachelor of Technology in Information Technology; GPA: 9.06/10.0 — *Gwalior, Madhya Pradesh*

BSF Public School — Apr 2015 – Mar 2019
Science; GPA : 8.98/10.0 — *Tekanpur, Madhya Pradesh*