

Sanam Sah

Software Development Engineer II (SDE-2) | C++ | Windows Applications

GitHub Portfolio: <https://github.com/SANAMSAH>

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CAREER OBJECTIVE:

C++ Software Development Engineer with 3+ years of experience building high-performance Windows desktop applications using MFC, Win32, OpenCV, and OpenGL. Strong expertise in multithreading, socket programming (TCP/IP), 3D rendering, and UI optimization. Experienced in product-based development and large-scale commercial software.

CORE SKILLS:

- Proficiency in **Visual Studio C++** and associated tools and libraries.
- Experience in developing **Windows-based desktop applications** using C++, **OpenGL**, **OpenCV**, and **MFC**.
- Strong knowledge of **Object-Oriented Programming (OOP)** concepts, design patterns, and best practices.
- Ability to write efficient, maintainable, and scalable code using C++.
- Experience in debugging and troubleshooting complex software applications using VC++.
- Experience in **MFC API** for Windows-based GUI applications.
- Skilled in **Win32 API** for Windows-based software development.
- Strong knowledge of **multithreading** and synchronization concepts.
- Experience in Socket Programming **TCP/UDP**.
- Strong knowledge of **data structures**, **algorithms**, and hands-on experience with the **C++ STL**.
- Working knowledge of C++ with experience building Windows-based applications using **Qt framework**.

WORK EXPERIENCE:

Software Developer (C++) at Tukatech India Pvt. Ltd. | January 2023 – Present

Key Responsibility:

- Developed and maintained Windows-based MDI and SDI applications using **VC++**, **MFC**, and **Win32 API**, improving performance and stability across multiple software modules.
- Collaborated with designers and artists to integrate **3D models**, **animations**, and **visual effects** into the software.
- Implemented dynamic and responsive GUI components, resulting in a 20% increase in user interaction efficiency.
- Conducted detailed **white box testing** to ensure robustness and reduce production bugs.

Java Developer Intern at QSpiders (*Training Program*) | May 2022 – Dec 2022

PROJECTS

TUKA 3D

Improved and enhanced a 3D garment design application, incorporating advanced animation and high-quality 3D rendering capabilities using technologies like 3ds Max, V-Ray, and Cycles. Implemented realistic cloth simulation, texture mapping, and customizable avatar interaction features to improve garment visualization and design accuracy. Optimized performance for real-time previews and merged export options for production-ready 3D assets.

Designer Edition (DE)

A 3D garment design and visualization software expanded using C++, MFC Ribbon (SDI) Framework, and OpenGL. It provides advanced 3D modelling, rendering and simulation tools for the fashion industry, enabling realistic garment visualization and precise design workflows.

Weaves

Initiated and upgraded a 2D texture creation MDI application (Weaves) from scratch using MFC in VC++, tailored for the textile industry to generate detailed fabric and garment textures. Integrated socket-based communication using libcurl for features like image upload, color data exchange, and email sending.

Colorways

Designed and expanded the TUKA Studio Colorways MDI application from scratch using MFC in VC++, for creating, managing, and applying color palettes in textile design workflows.

Telemetry Data Visualizer

Creating a Windows application to **read telemetry data from COM port** and display it in the application interface. Blended a **3D rendering object** to visualize data in a more interactive way.

EDUCATION

- **UTTRANCHAL UNIVERSITY, UTTARAKHAND:**
Master of Computer Application, 8.4 CGPA, 2023-2025.
- **MAHARISHI DAYANAD UNIVERSITY:**
Bachelor of Computer Application, 65 %, 2019 to 2022.
- **Dibrugarh Hanumanbax Suraj mall Kanoi College (DHSK):**
12th in science, 2016 to 2018.

PERSONAL PROFILE

Date of Birth : 01/01/2000
Marital Status : Unmarried
Nationality : Indian
Languages Known : English, Hindi, Assamese

DECLARATION

I do hereby declare that the above information is true to the best of my knowledge.

Sanam Sah