

# SANGAM SAH

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

+91 8486222933 | [sangam.sah18@gmail.com](mailto:sangam.sah18@gmail.com) | [LinkedIn](#) | [GitHub](#)

## PROFESSIONAL SUMMARY

MCA graduate with 3 years of professional experience as a Software Development Engineer specializing in C++ and Windows application development. Proficient in **multithreading, socket programming, and MFC framework**, with hands-on experience designing, developing, and maintaining high-performance desktop applications. Strong focus on code quality, debugging, and problem-solving, with a passion for building efficient software solutions and continuously enhancing technical expertise.

## TECHNICAL SKILLS

- Proficiency in **Visual Studio C++** and associated tools and libraries.
- Experience in developing **Windows-based desktop applications** using **C++, OpenCV, and MFC**.
- Strong knowledge of **Object-Oriented Programming (OOP)** concepts, design patterns.
- Strong knowledge of **Multithreading synchronization** with experience developing thread-safe C++ applications.
- Experience in **socket programming (TCP/IP)** with a focus on developing reliable client-server applications in C++.
- Experience in **Debugging** and troubleshooting complex software application using **VC++**.
- Experience in **MFC** framework for Windows-based GUI application.
- Strong knowledge of **Data Structures, algorithms**, and hands-on experience with **C++ STL containers**.
- Good Understanding of **Data Base (SQLite)**.
- Experience in **SDLC** and **White Box Testing**.
- Good Understanding of **Git** and **Bitbucket**.
- Hands-on experience with Visual **Studio** and **QT framework** IDE for developing and debugging C++ windows applications.
- Hands-on experience with **Modern C++ (C++ 11/14/17)** features, including **smart pointer**, lambda expressions, multithreading and STL.

## PROFESSIONAL EXPERIENCE(SDE-2)

**Software Developer (C++)** at **Tukatech Indian 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.
- 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-APM (Automatic Pattern Making):

- Contributed to enhancing the TUKA APM application for **automated 2D garment pattern making**, focusing on improving pattern accuracy, optimizing generation logic, and ensuring precise output based on input data.

### TUKAplan-MRP (Material Requirement Planning):

- Contributed to the development and enhancement of the TUKAplan-MRP system for garment manufacturing, focusing on fabric planning, CutPlan integration, process scheduling, automated data handling, and improving **UI/UX** features using **C++**.

## COLOUR SEPERATION:

- Developed a **C++ MFC-based desktop** application for advanced image colour editing, featuring efficient colour manipulation, real-time previews, and user-friendly tools for colour changes, filling, and image processing customization.

## TELEMETRY DATA VISUALIZER

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

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## EDUCATION

- **UTTRANCHAL UNIVERSITY, UTTAKHAND:**  
Master of Computer Application 8.3 SGPA,2023-2025.
- **MAHARISHI DAYANAD UNIVERSITY:**  
Bachelor of Computer Application,64% ,2019-2022.
- **Dibrugarh Hanumanbax Suraj mall Kanoi College (DHSK):**  
12<sup>th</sup> in science, 2016-2018.

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## PERSONAL PROFILE

**DATE OF BIRTH** : 01-01-2000  
**MARITAL STATUS** : Unmarried  
**NATIONALITY** : Indian  
**LANGAUAGE KNOWN** : English, Hindi, Assamese

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## DECLARATION

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

**Sangam Sah**