

# Kishan Kumar Sahu

✉ 44kishan@gmail.com    ☎ +91-9102417705    in linkedin.com/kishan-sahu    🌐 github.com/kishan7677

## PROFILE SUMMARY

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Software Developer with expertise in **C++**, **Java**, and **Dart**, specializing in performance optimization (up to **97%**). Proficient in **Flutter**, **SQLite**, and **Direct2D** for building scalable, high-efficiency applications. Delivered **real-time solutions** with strict deadlines, reducing redundancy by **40%** and improving system reliability.

## TECHNICAL SKILLS

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**Languages:** C++, Java, Dart, SQL, C#, JavaScript, HTML

**Frameworks & Tools:** MFC, Direct2D, Visual Studio, Flutter, SQLite, .NET

**Technologies:** Software Development, Android App Development, AWS (EC2, S3), Image Processing

**Other:** Data Structures & Algorithms, Git, PowerShell/Shell Scripting, UNIX/Linux, CI/CD Pipelines.

## WORK EXPERIENCE

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**Software Developer**

**May 2023 - Present**

**Integus Systems Pvt. Ltd.**, Noida [link](#)

Startup offering services to [VIEW Micro-Metrology](#), a US-based company, and their own product is the Wachme smart watch.

### Project 1: High-Performance CAD Software for Automated Microscope (C++/MFC)

Large-scale application for PCB measurement using **C++**, **DSA** within the **MFC** framework and **Win32 API** in **Visual Studio**.

- Boosted efficiency by **80–90%**, reducing processing time from **2 minutes to 10 seconds** via multi-threaded serialization/deserialization.
- Implemented **Direct2D GPU acceleration** for CAD rendering, replacing legacy GDI and achieving **92–97% faster performance**.
- Resolved critical bugs, improved data consistency and reduced redundancy by **40%** and also **optimized memory usage** with **Morris Traversal**, preventing stack overflow.
- Automated **log analysis** tool using **PowerShell scripts**, reducing troubleshooting time by **25%**.
- Delivered **95% client satisfaction**, driving **60% profit growth** through on-time deployments.

### Project 2: Cross-Platform IoT Controller (Flutter/Dart)

iOS, Web, and Android app for managing Wachme smartwatches ensuring **70-80%** full control over the design and implementation process.

- Integrated **Google Maps** for GPS tracking on mobile/web, **WebSocket** for real-time communication and agora for **video call**, boosting user engagement by **30%**.
- Engineered a high-performance **SQLite database** with **ACID** compliance, 99% data consistency.
- Automated deployment **pipelines** using **Batch scripting**, reducing manual effort by **15 hours/month**.
- Enhanced cross-platform compatibility by refining code for iOS and Web, reducing platform-specific bugs by 25% post-deployment.

## PERSONAL PROJECT

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**SafeCrypt: Encrypted File Storage**

(Java, Android)

- Designed and implemented an Android app with **AES encryption**, incorporating password protection and two-factor authentication (2FA) for enhanced security.
- Integrated the **Google Drive API** to enable secure, encrypted cloud backups.
- Used the **MVVM architecture** for better scalability and maintainability. [Project on GitHub](#).

## EDUCATION

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**University of Engineering & Management, Jaipur**

**2019 - 2023**

Bachelor of Technology in **Computer Science**

**71.6%**