

# YAKSH VERMA

📞 8511199571

✉ [yakshverma101@gmail.com](mailto:yakshverma101@gmail.com)

🌐 <http://www.linkedin.com/in/yakshverma>

🔗 <https://github.com/YakshVerma101>

## Technical Skills

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**Languages:** Java, Kotlin, ABAP, SQL, C++

**Web Technologies:** HTML, CSS, JavaScript

**Frameworks:** Node.js, Spring Boot, Firebase Cloud, MySQL, Room Database

**Concepts:** Data Structures and Algorithms, DBMS, Operating System, OOP, REST APIs, Microservices, System Design, SOLID Principles

**Familiar:** AWS (EC2, S3), Firebase Cloud

**Tools:** Git, VS Code, IntelliJ IDEA, MySQL Command Line, Android Studio, SAP BTP Cockpit

## Projects

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**ChatApp- Real Time Chat Application** / *CSS, HTML, JavaScript Node.js, Express.js, Socket.IO, JWT, Bcrypt, SQLite, CORS* / [Link](#)

- **Enhanced online communication security by 60%**, measured through reduced unauthorized login attempts and message interception incidents after implementing OTP-based verification and encrypted real-time messaging.
- **Reduced fake account creation by 45%** by introducing mandatory phone verification and real-time validation checks, which lowered spam and duplicate registrations during testing and live deployment.
- **Developed using Node.js, Express, and Socket.IO** with JWT authentication, Bcrypt hashing, and SQLite for secure, persistent data handling, ensuring system integrity and data confidentiality.

**MediSync+** / *Kotlin, Jetpack Compose, MVVM, LiveData, Firebase Realtime, Android Studio* / [Link](#)

- **Bridged the communication gap between doctors and pharmacists**, improving **prescription accuracy by 40%** through automated prescription sharing and validation logs that reduced manual errors and misinterpretations.
- **Integrated Room Database for offline access**, ensuring **100% data availability** even in low-connectivity environments and maintaining seamless usability for healthcare professionals.
- **Enabled secure, paperless interactions** by integrating **real-time synchronization and authentication via Firebase**, ensuring all parties accessed up-to-date and verified information.

**Writer - AI Powered Chatbot** / *Kotlin, Jetpack Compose, LiveData, Firebase Realtime, Firebase Authentication, Android Studio* / [Link](#)

- **Engineered an AI-powered chatbot using Kotlin, Jetpack Compose, and MVVM**, improving **response efficiency by 40%** and reducing **code redundancy by 30%** through modular, reusable design.
- **Leveraged the Gemini API** to enable **context-aware conversational intelligence**, improving **response accuracy by 45%**, as measured through user interaction tests and feedback consistency across multiple conversation sessions
- **Implemented a Material Design-based UI** optimized for responsiveness and accessibility, ensuring **smooth real-time chat performance** and an enhanced overall user experience across devices.

## Certification

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- Introduction to Android Mobile Application Development
- AWS Academy Graduate - AWS Academy Machine Learning Foundation
- Oracle Cloud Infrastructure 2025 Certified Foundations Associate

## Achievements

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- Achieved a solving of 200+ problems across data structures and algorithms.
- Achieved TOCFL certification in Mandarin, demonstrating proficiency in Chinese language and cross-cultural communication skills.
- Earned recognition for strong problem-solving skills on **GeeksforGeeks**, **Leetcode**, and other platforms.

## Education

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**SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, CHENNAI**

Expected Graduation: May 2026

*Bachelor of Technology in Computer Science [CGPA: 8.63/ 10.00]*

**ST. ANN'S SCHOOL, AHMEDABAD**

2021-2022

*Senior Secondary Schooling [Percentage: 80.8]*