

YAKSH VERMA

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Technical Skills

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

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.

Writter - 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

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

Achievements

- 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

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, CHENNAI

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

Expected Graduation: May 2026

ST. ANN'S SCHOOL, AHMEDABAD

Senior Secondary Schooling [Percentage: 80.8]

2021-2022