Sarthak

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Profile

Third-year CSE student at VIT specializing in Information Security with experience in building scalable applications using **Kotlin**, **Java (Spring Boot)**, and **C++**. Skilled in **Native Android** development & **RESTful API** design and integration, with a strong track record in hackathons and real-world projects.

Education

Vellore Institute of Technology, B.Tech in Computer Science and Engineering with specialization in Cyber Security
Aug 2023 – Ongoing

- **CGPA: 8.52**
- **Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Object-Oriented Programming (OOP), Database Management Systems (DBMS), Cloud Architechture Design (AWS)

Projects

AyurTrace – Blockchain Supply Chain Traceability — GitHub
Hyperledger Fabric • Kotlin • Node.js • TensorFlow
- Implemented **permissioned blockchain** (Hyperledger Fabric) with smart contracts for tamper-proof provenance.
- Built **Kotlin based mobile app (farmers+consumers)** and a **Web portal (labs+processors)** for QR-based traceability, offline first accessibility, and test records.
- Integrated **TensorFlow herb ID + GPS** to cut misidentification by 70%.

Latch – Wi-Fi AutoAuth Client — GitHub
Kotlin • Jetpack Compose • Material 3
- Built a native Android application to automate the college wifi portal login process.
- Reduced login time from 20s → 600ms (**95% faster**) for **100+ daily users**.

VakeelAI – AI-Powered Legal Analyzer — GitHub
Kotlin • Jetpack Compose • Google ML Kit (OCR)
- Built **client side architecture** for a legal document analysis and review service.
- Implement **ML Kit OCR** to auto-extract legal docs, reducing review by 60%+.

Technical Skills

Programming Languages: Kotlin, Java, C++, Python, SQL
Frontend Development: Jetpack Compose, React, XML, HTML, CSS
Backend Development: Spring Boot (RESTful APIs, JWT, MVC), PostgreSQL, H2 Database, Firebase (Auth)
Development Tools: Git, GitHub, VS Code, Android Studio, IntelliJ IDEA, Postman, Vercel

Society and Organizational roles

Technical Committee member, VinnovateIT
April 2025 – Present
- Built apps to automate and streamline college processes and maintained the club's official website.

Achievements

Google DSC WomenTechies: Top 5 finalist out of 800+ teams	2025
Tredence InfinityAI: Finalist out of 2000+ teams.	2025
SIH Internal Hackathon: Finalist	2024