VISHAL RAJ

Senior Software Engineer - Mobile | iOS & Android Expertise | App Development

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SUMMARY

Senior Software Engineer with over **9 years of experience** leading **cross-functional teams** and driving **mobile innovation**. I specialize in **architecting** scalable and modular solutions that enhance **performance**, improve **team velocity**, and deliver **measurable business outcomes.**

KEY ACHIEVEMENTS

👉 Collaboration & Multi-App Ownership

Worked across 5+ pods, managing multiple mobile apps, adapting to fast-paced changes, and consistently delivering reliable results while growing technical expertise under pressure.

</> Code by quality and volume

Played a key role in designing the foundational frameworks and architectures, with the largest code contributions enabling 100% team adoption through clear, well-documented guidance.

⭐ Star Engineer at Twin Health

Led the cross-functional teams to launch trademark feature "Whole Body Digital Twin (WBDT™)", increasing user engagement by 30%.

🛠 Increased code coverage

Introduced a clean architecture–based approach for unit testing in Flutter projects, enabling the team to consistently ship new code with test coverage.

PHILOSOPHY

📐 Code is Craft

I view coding as both an intellectual and creative pursuit — I enjoy reading code deeply, recognizing patterns, and treating structure like a well-played game of Tetris.

🎯 Quality over Haste

I don't commit to solutions unless they meet industry standards of quality, maintainability, and clarity — solving problems thoughtfully, not just quickly.

⚔ Eliminate, Simplify, Strengthen

I believe in continuously improving code by removing repetition through frameworks and architecture, which enhances long-term maintainability and keeps development engaging.

💡 Ideas over Distractions

I value teams and discussions that revolve around ideas and solutions — prioritizing growth, curiosity, and principle in the way I work and collaborate.

LANGUAGES

dart, markdown	kotlin, java, prompt

c, python, sql, graph ql	javascript

EXPERIENCE

Twin Health

Senior Software Engineer

📅 09/2021 - Present 📍 Remote, Lucknow, India
🔗 https://usa.twinhealth.com

- **Architected** scalable **mobile frameworks** (Daily Actions, Sensor Flows, Survey Integration), **powering 35+ flows** with exhaustive **documentation**, improving **testability** and **time-to-production** via **JSON config.**
- **Built** real-time **communication** bridges between **Flutter, Android,** and **medical sensor SDKs** using method and event channels, **reducing development time** by **50%** through **centralised UI/UX** logic in **flutter.**
- **Collaborated** with **cross-functional teams** to **build** real-time **meal feedback** with macro breakdowns, **mitigating EA1C decline** (79% → 62%) and unlocking a **$3M revenue uplift.**
- **Delivered** end-to-end **AI-based photo meal logging** (95% success rate) and **supplement preference flows** saving over **$87K annually.**
- **Led** an initiative to **reduce APK size** by approximately **15MB (~10% app size)** by guiding the team in **adopting vector assets** and optimizing **asset packaging strategies.**
- **Implemented dependency injection** (get_it, injectables) and **routing systems** (go_router) in **Flutter** codebase to **boost modularity** and **test coverage**, enabling independent page testing, while **significantly reducing** development, testing, and deployment **time.**
- **Conducted** mobile **release train**, **CI/CD automation** (Bitrise), and **cross-timezone release** coordination — collectively **achieving zero hotfixes** for **iOS (19+ months)** and **Android (14+ months).**
- **Developed deep-linking, socket communication,** and UPC barcode logic, resulting in an 18% increase in meal scan success.
- **Integrated medical sensors** (CGM, BP, Weight Scale) via **Bluetooth/NFC** and vendor **SDKs.**
- Links: App store.

Flick2Know Technologies Pvt. Ltd.

Senior Software Developer

📅 02/2017 - 08/2021 📍 Gurugram, India
🔗 https://fieldassist.com

- **Contributed significantly** to lay down the **groundwork** for **7+ Android apps**, focusing on **scalable architecture** and setting up **strong foundations** for the team **to build upon**.
- **Led** and **mentored** a **team** of four engineers in **building** impactful sales automation and analytics **apps**, with over **100K+ downloads**.
- **Transformed** platform APIs into a **scalable, low-latency architecture**, reducing response times for faster, reliable mobile–platform communication across diverse network conditions.
- **Established CI/CD pipelines** using Azure DevOps and Fastlane, **streamlining** the **release** process and significantly **reducing** deployment **time.**
- Links: General trade, Analytics apps, App store, Play store.

PayU India

Software Developer

📅 06/2016 - 02/2017 📍 Gurugram, India
🔗 https://payu.in

- Worked on the PayU Cred Android app within a 15+ member team, focusing on secure credit card management and analytics capabilities.

EDUCATION

Bachelor of Technology in Computer Science and Engineering

Motial Nehru National Institute of Technology, Prayagraj

📅 05/2012 - 05/2016   📍 NIT Allahabad, India
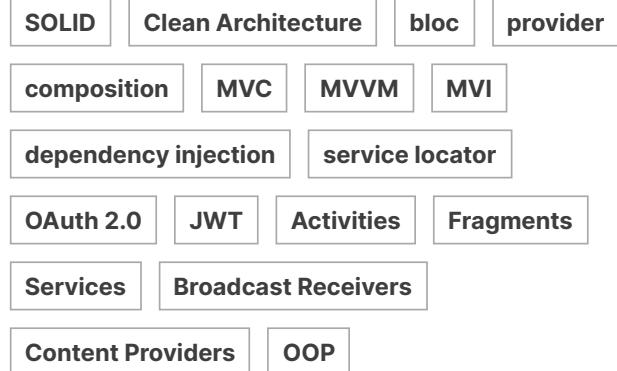
🔗 https://mnnit.ac.in

- **Engineered** a **Variant Particle Swarm Optimization** (VPSO) algorithm for **cloud workflow scheduling**, significantly **reducing** execution and communication **costs**. The optimized virtual machine utilization, delivering enhanced efficiency compared to standard methods.
- **Composed** an Android **app** over **Bluetooth** to control and **automate** home **appliances** connected to an Arduino board.
- **Designed**, coded, and **published** multiple Android **apps** on **Google Play Store**, including games like Minesweeper, a Unity-based Flappy Bird clone, Snake & Ladder, and Bull & Cows.
- **Created** the **official** Android **app** for the **college cultural** and **technical festivals**, featuring a minimal design, elegant UI, and real-time event notifications, published on the Google Play Store.

SKILLS

Processes

| waterfall | agile | scrum | task board |

| kaizen | test–driven development |

Design

| SOLID | Clean Architecture | bloc | provider |

| composition | MVC | MVVM | MVI |

| dependency injection | service locator |

| OAuth 2.0 | JWT | Activities | Fragments |

| Services | Broadcast Receivers |

| Content Providers | OOP |

SDKs

| AndroidX | jetpack | dagger2 | hilt | retrofit |

| room | coroutines | play services | flutter |

| build runner | get it | injectable | freezed |

| go router | Lottie | Garmin | Fitbit |

| survey sparrow | NFC | Bluetooth | taidoc |

| omron | Zendesk | biometric | work manager |

| Dexcom | Jetpack Compose | Dexcom |

Tools

| Copilot | AI Studio | IntelliJ | Android Studio |

| VS Code | Mixpanel | Firebase | Clever Tap |

| Split.io | Lottie | Rive | Bitbucket | Jira |

| Gradle | Git | ADB | Bitrise | Lints |

| Fastlane | Postman | Figma | Confluence |