

VIVEK KUMAR TAMRAKAR

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CORE QUALIFICATION

- **Android AOSP:** Expertise in customizing and extending the System UI for specific needs. Strong familiarity with components and development patterns for building user interfaces. In-depth knowledge of inter-process communication, Binders, AIDL mechanisms for robust system interactions
- **Virtual Emulator Debugging:** Experience debugging virtual environments like Cuttlefish for near-native Android development and testing. Expertise in utilizing Android Studio debugging tools (breakpoints, variable inspection), Logcat analysis, and remote shell access for efficient issue resolution.
- **Android Networking:** Experienced in designing, implementing, and debugging network calls using REST APIs, GraphQL for Android applications.
- **Android Framework:** In-depth knowledge and experience with core framework components including System UI, Android Package Manager, Window Manager, and Activity Manager.
- **Android App Development :**
 - Proficient in native Android application development using Kotlin and Java.
 - Utilized Kotlin Coroutines and other features to optimize asynchronous tasks and enhance user experience.
 - Developed apps using Android Jetpack Architecture components (ViewModel, Lifecycles, Navigation).
 - Proficient in design, data structures, problem-solving, debugging and design patterns using MVP, MVVM, Dependency Injection.
- **Partner Management and Collaboration Techniques:** Strong communication and collaboration skills to build relationships with partners. Collaborate with cross-functional teams, including stakeholders, QA members, UX and designers, to grasp the requirements and deliver top-tier software products.
- **Technical Communication (Written & Verbal):** Ability to effectively communicate technical concepts to partners and stakeholders

PROFESSIONAL EXPERIENCE

HCL AMERICA SOLUTIONS INC. (CLIENT: GOOGLE)
Senior Technical Lead

San Jose, CA
2022-Present

- Handling bugs reported on the public issue tracker for [Android 15](#), [Android 14](#) and [AOSP](#).
- Designed and implemented remote data fetching using Retrofit within the MVVM architecture for an e-commerce application (POC). Leveraged LiveData for efficient data flow between the ViewModel and View.

- Familiar with GraphQL concepts and its potential benefits for efficient data fetching and a flexible querying experience in e-commerce applications using Kotlin and Java.
- Proactively monitored trending and top bugs reported on public issue trackers and social forums. Collaborated with engineering teams to identify root causes and propose solutions for reported bugs.
- Refactored the System UI (AOSP) platform code base.

HCL TECHNOLOGIES

Senior Technical Lead (CLIENT: GOOGLE)

Gurgaon, India

2019-2022

- Developed and Integrated Web Services, (like transmitting Network Data using libraries Volley, Retrofit that makes networking for Android apps easier and faster), XML and JSON parsing.
- Developed Android application using Android Jetpack components like (ViewModel, DataBinding etc.) .
- Contributed in tablet and large screen support introduced in Android 12 and 12L including optimization for the System UI.
- Coordinated with eng members and Program managers in rolling out the Android release achieved 35% reduction in turnaround time.
- Streamlined processes and developed standard tools reducing engineering touch time by 28%.
- Supervised, managed and led a team of 4 members that have boosted the revenue by 20% over the last year.

Technical Lead

2016-2019

- Worked individually as well as part of a larger team on developing microservices and maintaining multiple client applications.
- Coordinate with different vendors/OEM's and triage team to look into the issues specific to OEM's.
- Performed triage along with root cause analysis for product or system issues and debug/track/resolve by analyzing the sources of issues and the impact on hardware, network, or service operations and quality.
- Learned new OOP language Kotlin and successfully migrated parts of the project into Kotlin.
- Mentored other Android developers in a collaborative and a team based organization.

SAMSUNG RESEARCH INSTITUTE

Technical Lead

Noida (U.P), India

2012-2016

- Spearheaded Android Lock screen and System UI team. Involved in preparing prototype/feature implementation (onsite & offshore), as per the UX guidelines for Android framework System UI & Lockscreen module.
- Implemented the new design for QuickPanel and Lock screen during Android Kitkat and Android Lollipop rollouts for Samsung models.
- Fixed bugs with code, design patterns and miscellaneous occurrences during projects.
- Imparted technical leadership across service fundamentals including reliability, scalability, maintainability, and performance and drove systematic evolution of the service infrastructure to meet future business needs.

GAMESHAstra

Senior Software Developer

Hyderabad (Telangana), India

2010-2012

Worked as a developer in the core development team, worked with architects, engineers, and product management to deliver user-friendly and visually appealing mobile games for the Android platform.

- Created and tested over 8 high-quality Android games and Android applications that included game functionality, animations, social networks, and server-side integrations.
- Ensured that content met or exceeded business and client requirements 100% of the time.
- Wrote clean, clear, efficient, well-tested, and maintainable code.
- Articulated technical risks and obstacles to key stakeholders and managers.
- Developed mini games using OpenGL.

MANGROVE SOFT PVT LTD

Software Developer

New Delhi, India

2009-2010

- Designed user interface based on the product requirement on mobile platforms.
- Implemented social media API integration (Facebook or twitter).
- Implementation of the Audio framework for recording and playing audio on iOS platform.
- Worked on local database implementation using Core Data and SQLite.
- Worked on the network connection for rest API and audio data.

EDUCATION

DEVI AHILYA VISHWAVIDYALAYA

Masters in Technology, Major in Mobile Computing Technology

Indore(M.P), India

2008-2010

PANDIT RAVISHANKAR UNIVERSITY

Bachelor of Engineering, Major in Information Technology

Bhilai (C.G), India

2003-2007