Madhu Vandhana Vijay Kumar

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## PROFESSIONAL SUMMARY

Passionate Android developer with 7+ years of experience in creating user-centric applications. Skilled in UI/UX design, performance optimization, mobile app backend, cloud technologies, while leveraging the latest tools and frameworks, including Kotlin, Jetpack Compose, Java, and React Native. Expertise in MVVM, MVP, and MVI architectures to build scalable, maintainable apps. I thrive on collaborating with cross-functional teams to bring projects from concept to reality. Committed to continuous learning and embracing innovation in the fast-evolving Android ecosystem.

## SKILLS

Java, Kotlin, React Native, SwiftUI, Node JS, MongoDB, J-unit, Dagger 2, Hilt, ARKit, Agile, Google Analytics, Facebook-login API, Firebase, GraphQL. ML-kit, React JS, Machine Learning(Tensorflow Lite), CI/CD Pipeline Management, Jetpack Compose, Google Cloud Platform, JUnit, MockK, Espresso

## WORK EXPERIENCE

**Senior Software Engineer, Android**
**Nice North America, Carlsbad, USA | June 2023 - January 2025**

- Successfully delivered a robust UART communication module using Kotlin and Jetpack Compose, enabling seamless data transfer between Android IoT devices and ESP32 boards, significantly improving product reliability
- Pioneered facial and object detection functionalities using Android Google ML kit and Tensorflow Lite with Kotlin, leading to a significant expansion of product capabilities and enhancing the overall user experience
- Actively contributed to a cohesive and productive team environment by providing mentorship and advocating best practices, thereby improving overall project efficiency and code quality
- Optimized Jetpack Compose UI components by minimizing unnecessary recompositions, enhancing app performance and responsiveness
- Implemented a Kotlin State Machine using the KStateMachine library to manage door access controls, incorporating card swipes, gate codes, and VoIP call handling
- Acquired practical expertise in AOSP by configuring and managing network settings for Wi-Fi SSID changes in kiosk mode

**Software Engineer, Android**
**Glassdoor, San Francisco, USA | July 2021 - April 2023**

- Collaborated with team members to brainstorm new concepts and establish common development tools
- Transitioned a hub server RESTful API to a microservices architecture, leveraging GraphQL to aggregate schemas from individual services for optimized Employer overview screens
- Integrated community-based push notifications with Iterable, resulting in a 50% growth in opt-in rates during the first rollout
- Developed an A/B testing framework integrated with Optimizely, enabling seamless use across third-party libraries in Kotlin
- Successfully migrated existing Dagger-based dependency injection to Hilt, ensuring a smooth transition and improved developer productivity
- Streamlined android app releases by utilizing Bitrise workflows and YAML configuration, ensuring version control and reproducibility throughout the CI/CD process
- Contributed to collaborative release processes, managing App Store build creation, submission, and deployment, while supporting the development lifecycle from design to post-launch
- Led the initiative to create a dynamic step-by-step employer review screen using Jetpack Compose, catalyzing a significant enhancement in user satisfaction
- Developed comprehensive unit tests for both successful and failure scenarios using JUnit, MockK, and Turbine Flow, ensuring robust validation of business logic for optimal application performance and reliability

**Software Engineer and Team Lead**
**Kuliza Technologies Private Limited, Bangalore, Karnataka, India | January 2016 - July 2019**

- Led a team of three Android developers and three iOS developers in design and development processes
- Coordinated with business clients to optimize schedules, evaluate change requests, and ensure on-time project completion

- Facilitated cross-platform functionality for Android and iOS by adopting React Native, streamlining development and improving code reusability
- Configured SSL pinning for REST APIs and conducted security testing using Burp Suite, ensuring robust app security and data protection
- Leveraged Google Cloud Platform to implement Google Login authentication, ensuring a smooth and secure user experience
- Improved revenue of application by 30% by introducing Google AdMob with Firebase and Google Analytics
- Built application with MVVM pattern using reactive programming with RX java and Data-binding
- Integrated a messenger module using web socket-client and geolocation tracking for shipments utilizing Google service API
- Spearheaded automation of application by building test cases using Espresso and Mockito
- Enabled Facebook login authentication and enhanced data security on Amazon S3 using JSON-formatted bucket policies


**INTERNSHIP EXPERIENCE**
**Software Engineer Intern**
**IDT Corporation, Newark, New Jersey, USA | June - Aug 2020**

- Worked in an agile environment with continuous delivery of features
- Developed a multi-user augmented reality experience using ARKit and iBeacons
- Designed and implemented an IOS-14 widget in SwiftUI that shows foreign exchange rates for the preferred country

**EDUCATION**
Bachelors in Information And Computer Science - PES Institute of Technology, Bangalore, Karnataka, India | January 2012 - May 2016
Honors: Distinction Award

Masters in Computer Science - Stevens Institute of Technology, Hoboken, NJ | Aug 2019 - May 2021
Related Courses: Cybersecurity, Algorithm, OS, Web programming, Natural Language Processing, Mobile systems
Honors: Computer Science Department Service Award