

KRISHNA VAMSI GUJJULA

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EXPERIENCE

University of Central Florida

Graduate Teaching Assistant | Software Engineering

September 2022 – Present

- Assisting **400+ students** and professors as a GTA, providing academic support, clarifying Android development concepts, Java/Kotlin programming, and software design principles to enhance learning and academic success.
- Integrated Android development into 3+ courses with hands-on assignments using **SDK, SQLite, and RESTful APIs**.
- Conducting **10+ Android workshops**, sharing industry insights, and facilitating hands-on Kotlin coding for students.

IndiaMART InterMESH Limited

Software Engineer | Android Software Engineer

April 2021 – August 2022

- Designed and developed a notifications module from scratch for **1+ million** users and introduced Notification Bubble via Android **Bubble API** for Android 11+ devices, boosting user engagement.
- Implemented a diverse range of complex features for IndiaMART's Android mobile application using Java, Kotlin, and JSON, which significantly enhanced app functionality and user experience, leading to a **20% increase** in user interaction.
- Directed and executed a comprehensive overhaul incorporating Scoped Storage and Room Database; **accelerated data retrieval by 15%** and fortified user data security, elevating the app's adaptability and extending usability.
- Authored and executed **250+ detailed unit tests**, enhancing app robustness and performance. Efficiently resolved critical issues such as crashes, memory leaks, and concurrency challenges.
- Implemented **Dependency Injection** using frameworks like Dagger 2 to manage dependencies efficiently, promote code reusability, and facilitate unit testing of Android components.
- Efficiently managed Agile tasks, completing **100% on time** for consecutive sprints. Enhanced OpenProject workflows, boosting project delivery and team productivity.
- Developed robust backend services for a high-traffic mobile application using **Retrofit** for seamless **REST API** communication, significantly enhancing data retrieval efficiency and user experience.

Associate Software Engineer | Android Software Engineer

May 2020 – April 2021

- Integrated **Firebase** services like **Firebase Authentication, Cloud Messaging**, and Analytics into Android applications, enabling features such as user authentication, real-time data synchronization, **push notifications**, and analytics tracking.
- Improved Android app performance by utilizing ThreadPoolExecutor, **AsyncTask**, and **Kotlin Coroutines** for concurrency, resulting in a 30% faster task processing and **25% quicker load times**.
- Mastered procedures, best practices, and architectures, including **MVVM, MVP, and MVC**, for developing intuitive applications.
- Actively participated in over **100+ code reviews** and mentored 5 junior developers, significantly contributing to their professional growth and the overall quality of the team's output.
- Specialized in the integration and customization of Android components, leading to a 30% boost in user engagement by optimizing **RecyclerView, ViewPager, Fragments**, Services, BroadcastReceivers, and Content Providers.
- Fostered team collaboration by utilizing Git VCS for streamlined task assignment and code management.

TECHNICAL SKILLS

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| • Programming Languages | Java, Kotlin, JavaScript, Python, C++, C, SQL, JSON, XML, Swift |
| • Developer Tools | Android Studio, PowerBI, Postman, VS Code, Eclipse, Anaconda, IntelliJ IDEA, Jupyter, Spyder |
| • Technologies/Frameworks | MVVM, MVP, RESTful APIs, SQLite, Firebase, Jira, OpenProject, AWS, SDLC, GitHub, Git, UI/UX |

EDUCATION

University Of Central Florida, Orlando, USA

Aug 2022 – Present

Master of Science in Computer Science

GPA: 4.0/4.0

PUBLICATIONS

Chatbot: A Deep Neural Network-based Human-to-Machine Conversation Model

- * **Presented and published** research findings on healthcare-focused Chatbot at **IEEE 2020's 11th International Conference on Computing, Communication and Networking Technologies (IIT Kharagpur)**, highlighting successful implementation of DNN and NLP techniques for user interaction.
- * Optimized chatbot user experience for the healthcare sector, achieving over **85% user satisfaction** in pilot tests through tailored conversations and effective problem-solving capabilities.
- * Implemented a feed-forward deep neural network architecture, integrated Lemmatization techniques using the NLTK library in Python for effective data preprocessing, improving conversation context understanding by **30%**.

AWARDS AND CERTIFICATIONS

- **Emerging Star Of The Month September 2021** : Given in recognition to the outstanding contribution to a project at IndiaMART which is currently benefiting over a million users.
- [AWS Certified Solutions Architect – Associate](#) | [Meta Android Mobile App Development](#) | [Principles of UX/UI Design](#)