

Hamza Masood

Masters in AI Student | Experienced Android Developer |
Exploring Kotlin Multiplatform Development

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Experienced Software Engineer specializing in Android development and currently pursuing a Master's in Artificial Intelligence. Demonstrated success in optimizing app performance and user experience, resulting in significant improvements in engagement and stability. Proficient in multiple programming languages and frameworks, with a focus on scalable and innovative solutions.

WORK EXPERIENCE

Brandenburgische Technische Universität Cottbus-Senftenberg

Cottbus, Brandenburg, Germany · Hybrid · 09/2022 - Present

Masters Student

- Developed skills in VR/MR interaction techniques (tracking, scene graphs, collision detection) and used them to develop a final prototype.
- Gained proficiency in applying various AI programming paradigms (logical, functional, object-oriented, constraint-based) to real-world applications through a course project
- Built expertise in (NLP, NLU, NLG) using text mining techniques (Python, R) and large language models (Transformers) to develop and secure chatbots like Dialogflow CX.
- Developed foundational knowledge in human and machine learning, including memory, reasoning, and cognitive agents (embodied conversational agents) for further specialization in AI learning.

CARIAD

Ingolstadt, Bavaria, Germany · Hybrid · 06/2023 - 02/2024

Software Engineer Android

Internship

- Spearheaded the development of Android apps using Java/Kotlin, resulting in scalable and innovative solutions, enhancing user engagement by 25%.
- Optimized app development processes by integrating cloud and software architecture, cutting development time by 30%.
- Enhanced project clarity by 20% through meticulous documentation using JIRA and Confluence.
- Boosted testing efficiency by 40% via CI/CD implementation and Python scripting for Android apps.
- Developed a demo with UI enhancements, increasing app downloads by 20% and improving user retention by 15%.

Mobile Application Developer

Pakistan · 07/2017 - 01/2022

Android Engineer

EDUCATION

Master of Science - AI in Artificial Intelligence

Brandenburgische
Technische Universität
Cottbus-Senftenberg

Cottbus, Germany
10/2022 - Present

Bachelor's degree in Computer Science

University of Engineering
and Technology, Taxila

Taxila, Pakistan
01/2012 - 12/2017

SKILLS

Programming Languages and Frameworks

- Kotlin
- Compose/Kotlin Multiplatform
- Java
- Dart (for Flutter)
- Python
- Javascript
- Swift (xCode)

Mobile App Development

- Android Studio
- Android Material Design
- Android ProGuard / DexGuard
- Infotainment (HMI & Platform) for Automotive
- Jetpack (including Jetpack Compose UI Toolkit)
- Clean Architecture (MVVM/ MVC/MVI)
- Coroutines (Async / Concurrent Programming)
- Reactive Programming / RxJava

Full-time

- Consistently optimized and enhanced Android applications, improving performance, user experience, and stability across various organizations.
- Led optimization of financial transaction platforms at Telenor Microfinance Bank Limited, decreasing app crashes by 30% and streamlining backend architecture with Firebase and Google Analytics, reducing crashes by an additional 10%.
- Directed the complete development cycle of the ZuPeshawar Android app at LMKT, demonstrating effective project management and customer focus, influencing future mobile architecture decisions.
- Leveraged collaborative skills across all roles to successfully deliver over 10 high-quality Android apps within strict deadlines at Telenor Microfinance Bank Limited and LMKT, fostering effective cross-functional teamwork and timely project completion.
- Consistently demonstrated problem-solving abilities by resolving client issues promptly, achieving a 95% issue resolution rate within 24 hours at AKSA-SDS. Moreover, identified and resolved over 50 bugs using advanced debugging methods, ensuring stable and reliable application performance.
- Drove improvements in user engagement and application performance by developing intuitive UI/UX designs, resulting in a 20% increase in user engagement at AKSA-SDS. Additionally, reduced app loading time by 50%, enhancing overall user experience and satisfaction at Telenor Microfinance Bank Limited.

- Unit Testing (J-unit / Mockito / Mockk / Automotive Testing)
- Versioning Tools (Git / Gerrit / Bitbucket)
- Firestore / MongoDB / Room / SQLite

Project Management and Organization

- Project Management Software (Jira / Trello / Confluence / SharePoint)
- Agile Project Management
- Decision Making
- Organization Planning and Punctuality

CERTIFICATIONS

Compose Multiplatform-iOS/Android Development with Kotlin •

06/2024

Instructors Stefan Jovanovic (Udemy)

Problem Solving Basic • 04/2023

HackerRank

RxJava: Design Patterns for Android Developers •

12/2022

LinkedIn