Mohammad Tipu Sultan

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linkedin.com/in/tipu | github.com/tipu-s | tipu-s.github.io/tipu-portfolio/

EXPERIENCE

Senior Software Engineer | Techetron Ventures Ltd.   Nov'24 –Present
Platform: Android | Language: Kotlin

- Architected a secure, flagship banking-grade application for 50K+ users using Kotlin, Hilt, and Room, achieving a 99.9% crash-free rate by implementing robust error-handling and reactive programming patterns.
- Optimised onboarding flows by collaborating with Product and Design teams to implement Clean Architecture (MVVM), resulting in a significant reduction in user drop-off and enhanced conversion rates.
- Streamlined release cycles by building automated CI/CD pipelines and a comprehensive unit testing suite using JUnit and Mockito, reducing deployment time by 20% while increasing code coverage.
- Led a global team of 50+ engineers in standardizing code review protocols and technical documentation to ensure long-term codebase maintainability and seamless cross-functional team integration.

Senior Software Engineer | Samsung Research & Development   June'19 –Oct'24
WearOS Development for Samsung Galaxy Watch Series (Watch4-Watch7)
Platform: WearOS | Language: Java, Kotlin, C/C++

- Engineered system-level services for millions of global devices, delivering a 10x improvement in stability and a 90% reduction in customer-reported incidents through rigorous performance profiling and optimisation.
- Boosted system responsiveness by 30% through deep-dive debugging and hardware-software integration for WearOS and Android platforms, ensuring smooth UI performance across diverse hardware specifications.
- Spearheaded the transition from Java to Kotlin for core system libraries, significantly enhancing developer productivity and reducing memory overhead using Coroutines and Flow.
- Partnered with cross-functional leads across global offices to deliver integrated, high-quality software within an Agile Scrum framework, facilitating synchronised releases across multiple time zones.

TECHNICAL EXPERTISE

- Languages & OOD: Kotlin (Expert), Java (Strong), C/C++, Object-Oriented Design (OOD).
- Architecture & Patterns: MVVM, MVI, Clean Architecture, SOLID Principles, Dependency Injection (Dagger/Hilt).
- Systems Integration: REST APIs, Retrofit, OkHttp, JSON, XML, HTTP fundamentals, GraphQL
- Data & Performance: Performance Optimization, Coroutines, Flow, Analytical Skills, Crash Reporting.
- Mobile & UI: Android SDK, Jetpack Compose, WearOS, ViewModel, LiveData, custom UI components.
- Development Practices: Agile (Scrum/Kanban), TDD, Unit/Integration Tests, Git (Source Control), CI/CD.

EDUCATION

MSc in Artificial Intelligence & Robotics (Part-Time) | University of Huddersfield, UK   Feb'25 – Present

BSc in Computer Science and Engineering | University of Rajshahi, Bangladesh   Feb'15 – Mar'19

TECHNICAL EXPERIENCE

Quotes Creator (2024) | 10K+ Downloads, 4.8★ Rating

- Built a creative utility with a high-fidelity rendering engine, 30+ custom fonts, and social media API integration.
- Designed a responsive UI/UX to streamline professional-grade content creation and instant cross-platform sharing. [Link]

Smart Bancharampur (2023) | Utility App for 150K+ Community

- Developed a Kotlin-based utility app using Retrofit and Jetpack to centralise transport and local data for 150K+ users.
- Managed the full development lifecycle from greenfield architecture to Play Store deployment. [Link]

ADDITIONAL EXPERIENCE AND AWARDS

- Ranked in the top 20% of Samsung's global engineering professionals through rigorous Pro-Level Coding Competency examinations focusing on advanced algorithmic solutions.
- Awarded "Excellence in Outstanding Contribution" in 2024 and 2022 for driving technical stability and delivering high-impact system services for the Galaxy Watch series.
- Solved 1000+ complex Data Structures and Algorithms (DSA) problems across competitive platforms, including LeetCode and Codeforces.