Sushanth Grandhi

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SKILLS

Development: Kotlin, Python, Java, Swift, JavaScript, C/C++, HTML, XML, CSS, ReactJs
Mobile Development: Android SDK, iOS SDK, ReactNative, Jetpack, SwiftUI, Compose, Gradle, Material Design, Koin, Dagger-hilt, Junit, Espresso, Design patterns, Modular design, MVVM, MVI, RxJava/RxKotlin, JSON, lifecycle, navigation
Backend Development: Flows, Coroutines, Ktor, Flask, FastApi, RestFul API, GraphQL
Databases & Cloud: Firebase, Mongo DB, Realm DB, Room, Sqlite, SqlDelight, SQL, MsSQL, Solr, NoSQL, GCP, AWS
Miscellaneous: Git Version Control, CI/CD, Debugging, Troubleshooting, Reactive programming, SDLC, Scrum, Jira, Agile

INDUSTRY EXPERIENCE

Software Developer, NYS Office of Information Technology Services, Albany, NY   June 2024 – Present
- Managed and optimized New York statewide benefits data using advanced SQL and automation scripting techniques.
- Enhanced dashboard functionalities for 20+ public assistance programs, improving operational efficiency by 15%.

Senior Research Assistant, The Research Foundation for SUNY, Buffalo, NY   July 2023 – Jan 2024
- Created a mobile application in collaboration with the UB nursing school to aid behavioral health and smoking cessation.
- Implemented 5 new key features including daily check-ins, goal tracking, chatbot, and progress analytics dashboards utilizing material design principles to enhance user experience and engagement.
- Secured $130,000 in grant funding, expanding project scope and research capabilities.
   Tech Stack: Kotlin, Swift, Jetpack Compose, Firebase, UIKit, Ktor, Flask API, Flows, MVI, Dependency Injection.

Graduate Research Assistant, Xlabs-UB, Buffalo, NY   Oct 2022 – May 2023
- Built an application enabling users to explore, categorize, and reference research papers, and enhanced platform responsiveness and user engagement using Kotlin Multiplatform and a robust Neo4j database.
- Integrated real-time updates via OpenAlex, using GraphQL and FastApi to maintain content relevancy and utilized HTTP caching capabilities in the mobile app for efficient data retrieval reducing average latency from ~1 sec to about 400 ms.
- Ideated and developed a collaborative filtering NLP algorithm to personalize recommendations, boosting user engagement KPIs of daily active users, average session length up by 33%.
   Tech Stack: Kotlin, Python, React, FastApi, GraphQL, Coroutines, Ktor, Observer pattern, Network, Clean architecture.

Software Development Engineer, Samsung Research Institute, Noida, India   Jan 2020 – June 2022
<u>Legacy Code Migration</u>
- Led the migration of Samsung native application codebases from Java to Kotlin; integrated and incorporated AndroidX Jetpack features libraries - Room DB, WorkManager, and LiveData for reactive UI to enhance application responsiveness.
- Achieved a 15% reduction in app size, boosting performance and developer productivity with easier maintenance.
<u>Wearable Application Development 0-1</u>
- Developed first-generation Samsung Wear OS apps from scratch, implemented layered architecture and MVVM with clear separation of concerns, ensuring scalability and faster future enhancements.
- Achieved a 40% reduction in gradle build times through modular design in comparison to previous Tizen OS app versions.
<u>Product Lifecycle Management, Feature Updates</u>
- Increased unit, integration, and E2E test-case coverage using JUnit, Mockito, Espresso reducing bug incidence by 50%.
- Utilized Systrace, Profiler to debug and optimize application performance; reduced app launch times by 35% saving about 290 ms in the median startup time using asynchronous programming and caching techniques.
- Streamlined feature release cycles, reducing time-to-market from 4 months to 2.5 months.
- Led a cross-functional team that collaborated with product designers to integrate Bixby and Smart-things API into applications using webhook HTTP endpoints, leading to enhanced app engagement increasing average usage time by 25%.
- Mentored junior developers, reducing their ramp-up time through structured documentation and dedicated knowledge transfer sessions, thereby enhancing team productivity and improved code quality through code reviews.
   Tech Stack: Java, Kotlin, Reactive, AndroidX, MVVM, Repository Pattern, OkHTTP, Concurrency, SOLID principles.

EDUCATION

Master's in **Computer Science,** University at Buffalo - The State University of New York   **Feb 2024**
Bachelor's in **Information Technology,** National Institute of Technology Patna   **May 2020**