

NANDHINI SARAVANAN

Email address : nandhinisaravanan03@gmail.com
Phone number : 8105150497

PROFILE

Experienced Engineer with 11+ years of proven success in designing and developing high-performance mobile applications and distributed backend systems. A strong advocate for quality and efficiency, I possess a deep understanding of OOA&D principles and a solid foundation in Java, Android SDK and Kotlin. Eager to contribute my skills and expertise to innovative projects that push the boundaries of technology.

SKILLS

Java	Jetpack Compose
Kotlin	Android Architecture
Spring Boot	Automated Testing (Espresso, JUnit)
Wear OS	CI/CD
Dependency Injection	
AWS	

EMPLOYMENT

Lead Engineer	Jun 2017 – Oct 2024
Samsung Research India	

QuickShare (Nov 2022 - Oct 2024):

- Implemented core functionality for Samsung's Quick Share application, facilitating the quick transfer of any file type (photos, videos, songs, links, etc.) between nearby Samsung devices. This involved development within the MdxKit framework, the core technology handling device discovery, authentication, and connection establishment.
- Led the development of an automated test application in C# and Espresso to ensure the quality and stability of MdxKit.
- Architected and guided the project's transition from Java to Kotlin.
- Stacks Used: Android, Kotlin, C#, Jetpack Compose, Espresso

Samsung Flexible UI Distribution (Oct 2021 - Oct 2022):

- Developed a flexible user interface distribution system that enables seamless interaction across multiple devices, specifically focusing on transferring UI controls between mobile and wearable platforms. My contributions spanned the entire project lifecycle, including proposing high-level and low-level designs (HLD/LLD), implementing the system, and developing a comprehensive suite of test cases.
- Stacks Used: Wear OS, Android, Kotlin, Espresso

Samsung Ads(DOOH Mediation Platform) (Oct 2020 - Sep 2021):

- Lead the design and implementation of robust, scalable, and fault-tolerant microservices and APIs using Java and Spring Boot, ensuring high availability and performance under extreme load.
- Champion best practices in software development, including code reviews, unit/integration/end-to-end testing, CI/CD pipelines, and documentation. Mentor junior engineers on coding standards and architectural patterns.
- Worked closely with product managers, data scientists, DevOps, and front-end teams to translate business requirements into technical specifications and deliver high-quality solutions.
- Stacks Used: Java, SpringBoot, Cassandra, AWS, Kafka

Samsung Internet (Jun 2017 - Sep 2020):

- Owned and drove the implementation of the Browser's Ultra Data Saving mode.
- Successfully delivered the Samsung Internet Bookmarks widget, taking full ownership of its development lifecycle.
- Developed and maintained the Samsung Internet Edge application, ensuring consistent performance and stability.
- Developed complex UI interactions and custom views within the Samsung Browser Settings module, significantly contributing to its functionality and user experience.
- Stacks Used: Android, Java, Kotlin, SQLite

Senior Software Engineer

Jun 2015 – May 2017

Samsung Research India

Knox customization SDK for wearables

- Led Project transition from C to C++. Delivered cSDK 2.2.0 API requirements.
- Took ownership for Gear UI module for cSDK and emergency contact addition in DB using encryption
- Stacks Used: C, C++, MySQL

Software Engineer

Jun 2013 – May 2015

Samsung Research India

Commercialization of Device Management Application

- Collaborated with cross-functional teams to define, design, and launch new features.
- Tested code for robustness, executed edge case, usability, and general reliability analysis.
- Fixed bugs and improved application performance.
- Stacks Used: Android, Java, Perforce

EDUCATION

Bachelor in Technology (Information Technology)

Jun 2009 – Mar 2013

PSG College of Technology, Coimbatore

CGPA – 7.56

HSC

Jun 2007 – Mar 2009

Kurinji Higher Secondary School, Namakkal

Marks – 96.83%