Kanishk Sharda

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SKILLS

Programming Languages: Java, C++, Kotlin, Python, SQL, C#, OpenGL, V
Mobile Development: Android (MVVM, Jetpack Compose, Room, Hilt, Bluetooth API, AOSP)
Backend & Cloud: Spring Boot, Hibernate, Firebase, GCP, Samsung Cloud, EncryptedSharedPreferences
DevOps & Tools: GitHub, JIRA, Bitbucket, Gerrit, Apache Superset, Snapdragon Profiler, CI/CD Pipelines, Performance Monitoring (Firebase, Perfetto, Systrace)

WORK EXPERIENCE

Samsung Electronics (SRI-B) **09 - 2022 – Present**
Senior Software Engineer *Bengaluru, India*

- Samsung Mobiles Settings Application Android | Kotlin | Java | C++ | MVVM

- **Led** backend-oriented architecture improvements for Samsung's mobile Settings system (**100M+ devices**), optimizing performance across CPU/GPU/power layers - achieved **30%** boost in system efficiency.
- Developed modular services in **Java/Kotlin** with **microservice**-like separation, integrating **cloud-native tools** like **Firebase** and **Samsung Cloud** for secure user data management and sync.
- Implemented secure token management using **Android EncryptedSharedPreferences** + **Knox**, aligning with cloud security and storage best practices.
- Refactored large codebases with **MVVM**, **Hilt**, and **LiveData/StateFlow**, improving code maintainability and modularity by 40%.

- Input Device Pairing Application Android | Kotlin | IoT |Bluetooth | Android XR

- Engineered a **scalable, device-agnostic Bluetooth pairing service** for Samsung's IoT and XR ecosystem, supporting low-latency pairing across XR headsets and mobile devices.
- Designed a **low-power BLE scanning system** with adaptive device memory (Room DB), enhancing reconnection speeds by 25%. Built and exposed custom **RESTful APIs** for cross-device pairing operations; ensured platform resilience through detailed telemetry and fallback strategies.
- Actively worked in **Linux-based embedded environments**, debugging connectivity and memory issues using command-line tools and **AOSP** logs.

Securonix **03-2022 – 08-2022**
Software Engineer Intern *Bangalore, India*

- Digital Identity Security SQL | Java | Jira | Apache Calcite |Spring MVC

- **Developed core components** for the **Next Gen SIEM** "SNYPRR" platform combining log management, **UEBA**, and security incident response into a complete, end-to-end security operations platform.
- **Developed** biometric security authenticator for digital identity verification.Utilized **SQL, Java, and Apache Calcite** for robust backend implementation

EDUCATION

Punjab Technical University **07-2018 – 06-2022**
*Bachelor of Technology in Electronics and Communication Engineering - **CGPA - 8.23*** *Punjab, IN*

ACHIEVEMENTS

- Certified by Samsung for Advanced Algorithmic & Problem-Solving Excellence
- **Patent (Pending): Developed Low Light Image Enhancement algorithm**, increasing **image clarity by 50%** and **optimizing camera pipeline efficiency**, while **cutting processing time by 20%** on Samsung devices.
- Led Samsung's first post-Meta **Space Warping** initiative, improving **real-time XR performance by 35%**, reducing **latency spikes in motion tracking** for a **next-gen immersive experience**.