

ADITYA SHAKYA



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PROFILE

Experienced C++ and Android Developer with 3+ years in Android development and system-level programming. Skilled in building scalable automotive and mobile solutions using C++, Android SDK/NDK, and Java. Strong in cross-platform optimization, cloud integration, and leading development efforts. Seeking a role focused on practical solutions and continuous growth.

SKILLS

Languages	:	C, C++, Java
Scripting	:	Bash Scripting, Python
Mobile	:	Android SDK/NDK, AOSP, HAL, Jetpack
Cloud & Protocols	:	AWS IoT, MQTT, S3 bucket, JITR, SFTP
OS / Platforms	:	Linux (Ubuntu), Android
Tools & Framework	:	Docker, Code Sonar, JIRA, Git, G-Unit, GDB, Valgrind
Core Interests	:	Data Structures, Algorithms, Blockchain, Linux System Programming

PROFESSIONAL EXPERIENCE

Associate Engineer II, Software Engineering – Harman Connected Services Pvt. Ltd. (Bangalore) **Feb 2024 – Present**

Project : PSA – STL (Automotive Security Team)

- Designed and implemented functionalities for Android-based Automotive systems, improving integrity and reliability across deployments.
- Contributed to the integration process of the TimeSecure protocol by analyzing HAL service behavior and assisting in flow validation across system components.
- Optimized integrity-checking logic, resolving SOP-critical issues and enhancing security compliance.
- Led defect triaging and resolution cycles, collaborating with cross-functional teams to unblock features and deliver timely fixes.

Environment : C++, STL, AOSP, HAL, Java, Linux, Android Native, Git, Multithreading, Code Sonar, Valgrind

Research Engineer – The Hi-Tech Robotic Systemz Ltd. (Gurugram) **Jun 2022 – Jan 2024**

Project : Novus Aware – Attention & Behavior Monitoring (ADAS)

- Heading ADAS R&D on Android platform, integrating innovative tech for enhanced driver behavior through pioneering Driver Monitoring State application. Committed to preemptively alerting drivers about risky behaviors for safer road.
- Developed FOTA upgrade protocol for ADAS using UART communication protocol, ensuring seamless and efficient updates for connected devices.
- Integrated AWS IoT services with ADAS IoT-enabled devices, enabling secure and scalable communication between devices and the cloud platform

Environment : C,C++, STL, Java, Linux, Shell Scripting, Android SDK, Android NDK, IPC, SFTP, CAN/FOTA, AWS IoT, Git, Python, Multithreading, MQTT, Docker, S3 bucket, Valgrind, Data Structures and Algorithms

Intern – The Hi-Tech Robotic Systemz Ltd. (Gurugram) **Mar 2021- Jun2022**

Project : Novus Aware – Attention & Behavior Monitoring (ADAS)

- Implemented driver image upload, critical warning notifications, power tampering alerts, and automated warning video features. Facilitated seamless transfer of corresponding metadata between device and Linux host over Wi-Fi utilizing the secure SFTP protocol with RSA authentication.
- Designed and developed advance ADAS application for Android platform and modules from technical requirement with cross-functional teams to define, design, and launch new features. (Enhancing Production Efficiency with 500%).
- Developed the Real-time data uploading solution for the data to cloud and Leveraged the JITR of AWS-IoT.

Environment : C, C++, STL, Java, Linux, Shell Scripting, Android SDK, TCP, SFTP, CAN/FOTA, Docker, AWS IoT, Git, Python. Doxygen, Valgrind, S3 bucket, Data Structures and Algorithms

Android Intern – New Software Solution LLP (Bhopal) **Aug 2020 – Jan 2021**

Projects : Android Applications development

- Chalo Pandit Ji - Built a location-based Android app enabling users to book verified Hindu priests for local religious services.
- Self-help Audio - Redesigned and enhanced a mobile app for streaming audiobooks authored by independent writers.
- Photo-Copy - Developed a native app for placing online print orders and filling applications via nearby trusted vendors.

Environment : Java, Android Studio, Rest APIs, Postman, Adobe XD, Firebase, Jira, Agile, Data Structures and Algorithms