

Md Abou Zuhayr

Developing Android apps for 7 years (freelance), **4 years of experience working professionally** in fast-paced startups. Exploring more challenging opportunities. I love building hardware devices in my free time or playing guitar and drums.

zoobi.92@gmail.com

LinkedIn - [LinkedIn Profile](#)

Portfolio

[Website](#), [Blog](#)

Skills

Android, Kotlin, Java, DI, MVVM, Embedded Systems, MQTT, Sockets, JNI, MEAN stack, Autonomous Robotics, iOS, Swift

Experience

Gather AI, Pittsburgh (Remote) — *Android Developer* - Feb 2024 - Present

- **Led the development of the communications module** for Android-based remote controls (RCs) and iOS based solution for iPads, ensuring seamless integration with multiple drone platforms and reliable operation in low-network environments.
- **Contributed to the autonomy engine** for enterprise-grade drones, implementing key features for autonomous flight, video streaming, and real-time controls.
- **Designed and built the Drone Performance Tracker dashboard**, leveraging telemetry and odometry data to predict drone collisions, detect anomalies, and proactively address hardware issues before failure.
- **Core contributor to multiple R&D projects**, including autonomous forklifts, drones, and AI-driven data gathering systems.
- Worked with a team of industry-leading experts on **autonomous systems and robotics** in a small team of ten engineers to deliver some of the **world's first** deep tech solutions (autonomous drones, deep freezer support etc)

Secomind.AI, California (Remote) — *Android Developer* - August 2021 - Feb 2024

- Led the development of core SDKs, Android libraries, and apps powering 5,000+ smart vending machines, integrating diverse peripherals and hardware protocols.
- Built 15+ SDKs for high-end rooted Android devices, enabling precise control of robotic arms, lifts, and hoppers for advanced vending.
- Developed watchdog and task manager applications for rooted devices to ensure privileged apps remain up-to-date and continuously running.
- Architected core DI/MVVM frameworks with socket-based real-time data handling for simultaneous user and machine communication.

LaalTen Tech, India (Startup) — *Co-Founder* - July 2019 - July-2022

- Created Android Apps to control several in-house built IoT devices that included mood lamps, strip lights, and home automation systems.
- Worked extensively on MQTT, Java Sockets, WiFi, and Bluetooth to provide seamless connectivity between the Android app and the hardware device.
- Worked on creating a MEAN stack-based web dashboard (Backend, Frontend, and basic analytics of AI on Python) to provide customers with analytics, predictive maintenance, and custom connectivity of Industrial Hardware Devices (like generators, motors, sensors)

Kisan Network, India — *Android Engineer (Intern)* - November 2019 - March-2020

- Worked closely on several core Android features daily.
- Deployed 4-5 features, majorly dealing with apps that interact in sourcing and procurement of crops from farmers.
- Deployed apps with dynamic layouts and optimized code for better functionality on slow devices.

Freelance Projects

- **Android:** Built apps for health & wellness, IoT air purifiers, farming education, and industrial e-commerce, including Chakrin Health, AirBlend, Farmisto Learn, and SMW Casting.
- **Web:** Developed MEAN stack admin panels and static websites for businesses.
- **Hardware:** Engineered smart devices like Training Box (AI-powered product photography) and Busy Box (e-ink status display).