Hongzhi Li

Android Developer Automotive Technology Specialist

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Profile Summary

Experienced Android Developer with over 5 years of hands-on experience in native Android development using Kotlin and Java. Proven expertise in building scalable mobile applications with Android Studio, deep understanding of Android SDK and platform architecture. Strong background in system-level Android components including Activities, Services, Content Providers, and Broadcast Receivers. Demonstrated ability to work with automotive infotainment systems and in-car applications. Currently serving as IT/Infrastructure Specialist at ECARX, bringing deep Android development knowledge to automotive technology solutions.

Core Technical Skills

- **Mobile Development:** Android (5+ years), Kotlin, Java, Android Studio
- **Android Framework:** Activities, Services, Content Providers, Broadcast Receivers, Intents
- **Android SDK:** Platform Architecture, System-level Components, UI/UX Design
- **Mobile Architecture:** MVVM, MVP, Clean Architecture, Dependency Injection
- **Database Integration:** SQLite, Room, PostgreSQL, MongoDB integration
- **API Integration:** RESTful APIs, Real-time data processing, JSON/XML parsing
- **Voice Processing:** Text-to-Speech (TTS), Wake-word detection, Voice commands
- **Real-time Systems:** Geolocation tracking, Live data updates, Push notifications
- **Testing:** Unit Testing, Integration Testing, Automated Testing, JUnit
- **Version Control:** Git, GitHub, GitLab
- **Learning Areas:** Native AOSP development, C/C++, Android Runtime Resource Overlays (RRO)
- **Cross-Cultural:** Mandarin Chinese proficiency, Eastern-Western communication bridge

ECARX — IT/Infrastructure Specialist (Android Development Focus)

October 2024 - Present — Gothenburg, Sweden

- Leading Android-based automotive technology solutions and system integration projects
- Developing and maintaining Android applications for automotive infotainment systems
- Implementing modern monitoring solutions using Grafana and advanced scripting for system reliability
- Providing technical expertise in Android development to cross-functional teams
- Managing complex network systems with focus on mobile and automotive connectivity

Synteda — Mobile Developer & Integration Specialist (Freelance)

August 2023 - September 2024 — Gothenburg, Sweden

- Developed comprehensive mobile applications using Android development with Kotlin and Java
- Built complete mobile platform from scratch, architecting both Android frontend and backend components
- Implemented RESTful APIs for mobile applications with focus on real-time data processing
- Integrated SQLite and cloud databases with optimized query performance for mobile applications

IT-Högskolan — Backend Developer (Part-time)

January 2023 - May 2023 — Gothenburg, Sweden

- Migrated "Omstallningsstod.se" adult education platform using Spring Boot backend services
- Developed RESTful APIs for frontend integration and implemented secure data handling
- Collaborated with UI/UX designers to ensure seamless frontend-backend integration
- Implemented automated tests as part of delivery process

Senior Material (Europe) AB — Platform Architect & Project Coordinator

January 2022 - December 2022 — Eskilstuna, Sweden

- Led migration of business-critical applications with microservices architecture
- Developed backend services with Spring Boot and designed RESTful APIs for frontend consumption
- Collaborated with development teams to optimize applications for maximum speed and scalability
- Participated in Agile ceremonies including sprint planning, reviews, and retrospectives

Pembio AB — Fullstack Developer

October 2020 - September 2021 — Lund, Sweden

- Developed Pembio.com platform backend with Java and Spring Boot in microservices architecture
- Built frontend features using Vue.js framework and integrated with backend APIs
- Developed RESTful APIs and implemented comprehensive database integration
- Participated in Agile development processes and collaborated with cross-functional teams
- Implemented automated testing strategies and ensured application security

Android & Automotive Projects

AndroidAuto_AI_Bot

June 2025 – Present
AndroidAuto, EdgeTTS, TwitterAPI, LLM, Python, Kotlin

- Designed an in-car AI voice assistant for Android Auto, activated via a custom wake-word `"Hi Car"`, as a smarter alternative to Google Assistant

- Integrated Large Language Models (LLMs) for natural language understanding and real-time conversational responses

- Enabled real-time querying of public Twitter/X content via Twitter API, with responses converted to speech using Edge TTS

- Built a text-to-speech (TTS) pipeline to vocalize responses from the LLM and external APIs for hands-free, eyes-free user experience

- Designed for Android Auto with a distraction-free, voice-only interface and on-device wake-word detection

- Supports conversational queries, personalized information access, and live updates while commuting

AndroidAuto_TTS_EpubReader

June 2025 – Present
Python, EdgeTTS, EPUB, AndroidAuto, TelegramBotIntegration, CloudFlare

- Built an EPUB-to-MP3 audiobook generator using Microsoft Edge TTS for Android Auto playback

- Designed offline media synchronization for customized reading-on-the-road experience

- Created distraction-free in-car UI for audio playback of personalized content while commuting

AndroidAuto_CarTVPlayer

March 2025 – Present
Kotlin, AndroidAuto, RESTfulAPIs, EXOPlayer, VLCPlayer

- Designed and built a customized Android Auto media player with enhanced audio controls and intuitive UI

- Integrated voice command processing and secure data access via SQL backend

- Developed and tested robust frontend and backend modules for smooth in-vehicle experience

Gothenburg_TaxiPooling

May 2025 – Present
SpringBoot, ReactNative, PostgreSQL, Python, ML, PSQL

- Neural network-powered carpooling platform with automated passenger matching and real-time geolocation tracking

- Developed cross-platform mobile application using React Native and Spring Boot microservices

- Integrated secure payment processing, RESTful APIs, and PostgreSQL for scalable data handling

- Engineered for performance optimization and GDPR-compliant data privacy

Education

IT Högskolan
Bachelor's Degree in .NET Cloud Development — 2021-2023
Mölndal Campus
Bachelor's Degree in Java Integration — 2019-2021
University of Gothenburg
Master's Degree in International Business and Trade — 2016-2019

Certifications

- AWS Certified Solutions Architect - Associate (Aug 2022)

- Microsoft Certified: Azure Fundamentals (Jun 2022)

- AWS Certified Developer - Associate (Nov 2022)

Additional Information

- **Languages:** Fluent in English and Mandarin

- **Interests:** Vehicle technology, energy sector, electrical charging systems, and battery technology

- **Personal Website:** bluehawana.com

- **Customer Websites:** senior798.eu, mibo.se, omstallningsstod.se