

Vitalie Croitor

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SUMMARY

Highly experienced Mobile Software Engineer Lead with 13+ years in Android (Kotlin/Java) development. AWS Solutions Architect certified with Go backend expertise, enabling cross-functional collaboration and architectural insights. Proven leader scaling teams to deliver robust applications for 300,000+ users. Expert in architecting scalable solutions, setting development standards, and driving innovation through impactful technical decisions.

EXPERIENCE

Lead Mobile Software Engineer | Dreamcraft | March 2023 - Present

- Led the Android application's re-architecture, for a project for seniors with mental disorders, to improve scalability, performance (+75% code quality improvement), stability, and reliability, tackling challenges of a growing user base.
- Established clear team structure, development processes, and coding standards, resulting in a 60% boost in delivery performance.
- Directed architectural strategy, implementing MVVM and strengthening test coverage, leading to a 30% increase in code quality and a 20% reduction in app crashes.
- Enhanced deployment efficiency by 30% through implementing and optimising automated CI/CD pipelines (experienced with GitLab CI/CD, GitHub Actions, CircleCI, Azure).
- Architected NFC and Host-Based Card Emulation (HCE) implementations utilising platform Secure Elements and modern cryptographic protocols (SPAKE2+, HKDF, EC).
- Delivered Bluetooth Classic/BLE and NFC features on Android; raised connection success to 99% and reduced pairing time by 40%.
- Implemented custom BLE GATT and NFC NDEF protocols; shipped OTA firmware over BLE with 98% success and 6-minute average update time.
- Coached and unblocked team members; cut onboarding time from 8 to 4 weeks and boosted internal promotion rate to 20%.

Android Engineer Lead | MotionTools | Remote (Hamburg, Germany) | July 2019 - January 2023

- Directed the end-to-end development and deployment of a flagship Android application, scaling to over 300,000 active users.
- Oversaw the delivery process for new features, software libraries (SDKs), and client applications.
- Built and led a high-performing Android team: mentored engineers, assessed performance, led technical meetings to resolve bottlenecks and drive improvements, and spearheaded recruitment efforts, increasing team delivery efficiency by 25%.
- Collaborated effectively with cross-functional teams, contributing to a robust application and a 30% rise in user engagement.
- Engineered a Bluetooth Low Energy (BLE) communication system enabling direct driver-vehicle interaction via a mobile application, resulting in a 20% reduction in overall delivery time.

Lead Android Engineer | ITS Revolution Software | Cluj-Napoca (RO) | November 2017 - April 2019

- Defined the technical architecture and design principles for Android applications, focusing on scalability, performance, and maintainability, boosting delivery time by 25%.
- Directed product development using Agile (Scrum) methodologies (Jira, Confluence), increasing app performance by 20% and reducing project turnaround times by 30%.
- Successfully scaled the development team from 2 to 11 developers while increasing project delivery efficiency by 25%.

Senior Android Engineer | Endava | Cluj-Napoca (RO) | March 2015 - October 2017

- Developed a custom home screen launcher for a proprietary tablet based on the AOSP native launcher, used by over 5000 customers.
- Led efforts to modernize the technical stack and tools, successfully refactoring parts of the projects with technical complexity and obsolete components and improving the code quality by 25%.
- Trained developers to grasp new technologies and solve complex tasks, providing tooling for documentation and knowledge transfer, reducing ramp-up time by 15%.

Android Engineer | Admatica | Cluj-Napoca (RO) | November 2013 - February 2015

- Designed and implemented an AES-based encryption protocol, enhancing security and increasing call performance by 20%.
- Introduce unit testing into the project and add unit tests for the most critical parts of the application's logic, creating a coverage of 87%.
- Successfully developed and launched a mobile application with over 10,000 downloads, utilizing Java and Android SDK to enhance user experience and increase engagement by 25% within the first six months.

Software Backend Developer | Winify | Chisinau (MD) | June 2011 - October 2013

- Developed secure web services using Spring MVC and SSL and designed database schemas with Hibernate and SQL + JDBC.
- Wrote automation tests with JUnit, DBUnit, and Mockito, covering 93% of the project.
- Developed and optimized complex MySQL queries, reducing average query execution time by 40% and enhancing overall database performance using indexing and query optimization techniques.

EDUCATION

Masters Degree in AI and Computer Vision | Technical University of Cluj-Napoca | Cluj-Napoca | October 2013 - July 2015

- Study of AI and Computer Vision with a focus on Computer Vision and object/obstacle recognition algorithms and principles; Augmented Reality (AR).

Bachelor's Degree in Information Technology | Technical University of Moldova | Moldova | September 2009 - July 2013

- Study of Computer science and Information Technologies with a deep focus on Object Oriented Programming principles; C/ C++ Programming; Operating system design and Others.

CERTIFICATIONS

AWS Solution Architect Associate | AWS | 2025

Associate Android Developer | Google | 2016

SKILLS

Kotlin, Java, Go, AWS, Android API and Libraries, Jetpack Libraries(Navigation, etc), Jetpack Compose, KMP, Coroutines, Material Design, Sockets, Kotlin Coroutines/Flows, Multi-threading, Redis, PostgreSQL, Realm, MySQL, Dagger 2, Room and DB management, Docker, CI/CD (Gitlab, Github, Circle CI, Microsoft Azure), UI/UX knowledge, Custom Animations, Unit and Instrumentation Testing, RESTful API, OAuth2, GraphQL API, Third-Party Libraries (Retrofit, Coil, Glide, Dagger, Hilt, Moshi, etc.), Firebase, MongoDB, Sentry, Application Publishing, Application Security and Obfuscation, Junit, SQLite, Apollo GraphQL.

Languages: Romanian (native), English.