Arsenii Mkrtumian

Kotlin Multiplatform Engineer (Android, iOS, Desktop)

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Summary

Kotlin Multiplatform engineer building Android and cross-platform apps on a strong backend foundation, with 5 years of commercial experience overall. Currently build system apps for ArmoredOS, a hardened mobile OS: a Calendar app with two-way Exchange, CalDAV and Google sync and offline-first data, and the built-in email client. Work with Compose Multiplatform, Jetpack Compose, Coroutines and Flow, and shared KMP modules on Clean Architecture. Years of backend work (Ktor, Symfony, Kafka, payment and banking APIs) mean the client is designed together with the API behind it.

Skills

- **Languages:** Kotlin, Java, PHP, TypeScript, Python
- **Multiplatform & UI:** Kotlin Multiplatform (KMP), Compose Multiplatform, Jetpack Compose, XML Views
- **Architecture:** Clean Architecture, offline-first sync, shared KMP business logic and data layers
- **Concurrency & DI:** Kotlin Coroutines, Flow, Koin, Dagger
- **Data & networking:** Room, SQLDelight, Ktor Client, REST, OpenAPI
- **Android platform:** Android SDK, system apps for a custom mobile OS
- **Sync & mail protocols:** Microsoft Exchange (EWS), CalDAV, iCalendar (.ics), IMAP, SMTP
- **Tooling:** Gradle, Git, Docker, GitHub Actions, GitLab CI
- **Backend:** Ktor, Symfony, Laravel, Node.js, FastAPI, Kafka, RabbitMQ, PostgreSQL, MySQL, Redis

Experience

Protelion — Android Engineer

Jun 2026 – Present

- Built the system Calendar app for ArmoredOS, a hardened mobile OS, from scratch on the Android SDK: two-way sync with Microsoft Exchange (EWS), CalDAV and Google Calendar, plus iCalendar (.ics) import and export.
- Designed offline-first sync: changes made offline are queued and reconciled on reconnect, with server-side changes applied first as the source of truth.
- Took the built-in email client (IMAP, SMTP, Exchange) from an early, unstable version toward production quality.
- Moved business logic and the data layer into shared Kotlin Multiplatform modules reused across platforms, with SQLDelight for local storage and Koin and Dagger for dependency injection.
- Implemented encrypted client–server communication on both the client and the server side, within the OS's security constraints.
- Maintain legacy system apps written in Java with XML layouts; apps ship through the OS's own app store.
- Review code in a team of 4 engineers.

AxiomateNova — Co-founder & Software Engineer

Apr 2025 – May 2026 · part-time, alongside OptimaxDev

Adjutor-AI: B2B SaaS that automates Agile project management — AI meeting summaries, budget tracking and AI reports on Git activity.

- On the Compose Multiplatform client (one codebase for Android, iOS, web and desktop), built the finance chat module end to end — the UI plus sending user messages into the LangChain / LangGraph pipeline and handling its responses — and the transaction and event history and app settings modules (Room for local storage, Koin for DI); fixed UI bugs across the event and finance chats.
- Designed and built the backend the apps talk to: a Ktor core for real-time data processing, Laravel subscription and user services, and a Node.js / TypeScript event-handling service.
- Built the LLM routing service in Python (FastAPI, LangChain, LangGraph) and set up Kafka as an ordered queue for clients' AI requests.

- Integrated Stripe, PayPal and 2Checkout for subscription billing, and the Google Calendar API for meeting scheduling.
- Two-person engineering team with mutual code review; built and launched the MVP.

OptimaxDev — Backend Engineer

Jan 2024 – Jun 2026

- Backend for GlassesUSA.com, one of the largest US online eyewear retailers (tens of thousands of orders per month): Symfony microservices and Kafka event streams; cut p95 latency of the slowest endpoints from ~900 ms to ~300 ms with SQL optimization and Redis caching.
- Built integrations with US health-insurance carriers (REST, SOAP, SFTP) for real-time eligibility checks and claims submission, handling PHI under HIPAA requirements.
- Grew the backend test suite from ~15 to 300+ automated tests; team of 8 engineers with multi-team code review.

Evistep Enterprise — Full-stack Developer

Oct 2022 – Jan 2024

- SmobilPay, a payment platform for the CEMAC region (Central Africa): integrated the APIs of 2 African banks and a major interbank transfer service; built utility bill payment flows for Cameroon.
- Subliminator, an e-commerce brand with 500k+ orders: Symfony services, Shopify and Etsy integrations, and HubSpot CRM sync for 5,000+ active customers.

ToolBox Software — Junior Full-stack Developer

Oct 2021 – Oct 2022

- NeoFitHub, a fitness platform with ~11,600 active users (Symfony, Angular), and front-end work on the Converse Bank public website.

Awards

1st place, Cybersecurity — national qualifier for Armenia, BRICS Hi-Tech Future Skills International Competition, 2026 · team of 2

Education

Russian-Armenian (Slavonic) University — BSc, Management and Business, 2021–2025 · GPA 3.6/4

Languages

Armenian (native) · Russian (native) · English (intermediate, B1–B2)