

# Ariyanto

Backend & Integration Engineer for payment and telecom gateway systems

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· mdengine.ddns.net/portfolio/en



Online portfolio

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## SUMMARY

I build and keep alive the systems that move a transaction from a phone to a provider and back, reliably and in real time. For 19+ years I have run MD Engine, a platform for electronic top-up (pulsa) servers that ties together GSM, XMPP, HTTP APIs, and payment rails. Now opening up capacity for remote contract work.

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## EXPERTISE

**Languages:** C++, C#, VB6, VB.NET, PHP, Java, Kotlin, JavaScript

**Platforms & tools:** Node.js, Android Studio, MySQL, Firebase, Git, Visual Studio, REST API

**Integration & protocols:** GSM, XMPP, HTTP API, WebSocket, SMS Gateway, WhatsApp API

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## EXPERIENCE

**Founder & Developer** · MD Engine

2007 to present

- Designed and built server software for electronic phone-credit (pulsa) top-ups, running continuously since 2007.
- Integrated multiple transaction protocols end to end: GSM, XMPP, and HTTP APIs.
- Provided direct technical support to hundreds of users on live production systems.
- Kept the platform operating and supported through shifting market and economic conditions.

[md-engine.com](http://md-engine.com)

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## SELECTED WORK

**api-mdengine** · C++, C#, PHP, VB6, VB.NET, Java, Kotlin, JavaScript

Core software of MD Engine's top-up server, built across all eight of my languages: C++ libraries and DLLs, a C# Telegram center module, a PHP transaction API, and more.

**WhatsApp Gateway for Android** · Android, Kotlin

Gateway app for sending top-up confirmations and transaction alerts through the WhatsApp API.

**Real-Time Transaction Monitor** · Node.js, WebSocket

Live monitoring system for tracking transaction status across the gateway as it happens.

**API Debugging Toolset** · Android, REST API

Tools for inspecting and debugging provider REST APIs (Digipos, Rita, Sidompul) during integration work.

**ABMediaAndroid** · Kotlin, MVVM

Online store Android app built on a clean MVVM architecture.

**MVVM Starter Template** · Kotlin, template

Reusable MVVM project template for Android Studio, used to bootstrap new apps faster.

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## LINKS

[github.com/arieemdee](https://github.com/arieemdee)

[md-engine.com](http://md-engine.com)

[facebook.com/masterdigital](https://facebook.com/masterdigital)

[x.com/arieemdee](https://x.com/arieemdee)