

RAE-AN ANDRES

Singapore | Philippines

[+65 9485 4833](#) | [+63 917 506 9965](#)

raean.andres@gmail.com | [LinkedIn: Rae-An Andres](#) | [Portfolio](#)

PROFESSIONAL SUMMARY

Seasoned IT leader with a decade of professional working history in commercial banking and insurance industry, delivering software solutions, and leading high-performing regional engineering teams. Highly skilled in Solution Architecture and Software Development.

TECHNICAL SKILLS

Category	Skills
Architecture & Cloud	SOA, Distributed Systems, Micro services, Modular-Monolith, Event-driven, Containerization (Docker), Cloud, Modularization, Product Line Engineering, Federated Identity, Cloud (Azure), Software Product Line (SPL)
Backend & DevOps	NodeJS, SpringBoot, Bash, Redis, RabbitMQ, Swagger, Jenkins, Fastlane, Artifactory, SonarQube, Google Wallet
Frontend	NextJS, React, Vite
Databases	MongoDB, PostgreSQL, SQLite, MySQL
Mobile Development	Native (Kotlin, Swift), Hybrid (Ionic, Cordova, Capacitor), Flutter, Mobile Security (SSL Pinning, Biometric Encryption), Offline Caching, Push Notifications, External SDK Integration (Samsung Health, Google Fit, HealthKit)
Domain Expertise	Mobile Payments, FX, 3DS, QR Pay, Investments, Idempotent Transactions, Vendor Failover, Feature Toggle, Maps, Health tracking
Practices & Security	Clean Code, SOLID, MVC/MVP/MVVM, DDD, TDD, Observability (NewRelic, Splunk, Open Telemetry), Fraud Detection, E2E HTTP Encryption, Web Authn
Tools	JIRA, Confluence, ServiceNow, ITIL, Agile, SDLC, Waterfall

PROFESSIONAL EXPERIENCE

UNITED OVERSEAS BANK (UOB) | Singapore

Principal Consultant (Payroll under Optimum Solutions)

October 2022 – Present

- Leading the Singapore L3 engineering team for the TMRW Singapore banking app, overseeing enhancement design, development, and strict code governance, ensuring compliance with organizational engineering standards.
- Liaising with product management, and business teams, for providing recommendations in the client application side based on the current production challenges and trends.
- Provides expert recommendation to governance group about the current client side technologies regarding client SDK compliances, Google Play Store and Apple Appstore changing policies.
- Helps to review the final code changes (pre and post CAB) before production deployment helping the governance team for any last minute decisions for change and rollbacks.
- Helps to optimize DevOps pipelines by enhancing the assembly, observability and quality check stages in relevance to the changing vendor SDK updates contributing to faster, more reliable releases.
- Significantly improved app resiliency and user experience by implementing an Idempotent transaction strategy for payments, effectively eliminating duplicate transaction issues.
- Designed and implemented a vendor failover mechanism to prevent vendor locking, resulting in a more robust and highly available application.
- Managed end-to-end software delivery, with guidance from delivery managers including facilitating production deployments and orchestrating multiple cross-functional teams post-production.

MANULIFE | Singapore

People Leader / Senior Software Engineer

September 2018 – September 2022

- Successfully led a team of high-performing mobile developers to deliver and support large-scale applications used by Manulife across Southeast Asia, ensuring high-quality outcomes and user satisfaction.
- Facilitated career growth by conducting regular 1:1 meetings to set clear expectations, identify strengths, and coach team members on areas of improvement, fostering a culture of continuous learning and development.
- Managed team resources effectively, overseeing evaluations, technical interviews, resource planning, and hiring candidates with culture-fit qualities to strengthen the mobile team.

- Established engineering standards for mobile development, organized knowledge-sharing sessions, and initiated proof-of-concept (POC) projects, ensuring the team stayed competitive with evolving industry skills and technologies.
- Achieved 5:8 direct reports promoted to leadership roles.
- 6:8 direct reports enrolled and successfully finished up-skilling initiatives that aligns to individual career aspirations

MYNT (Globe Fintech Innovations, Inc.) - Philippines

Senior Android Engineer (Payroll under Phil's Technology Inc)

July 2017 – August 2018

- Drove rapid user adoption by implementing critical app features (e.g., 7-11 QR cash-in, facial recognition KYC), contributing to 1M+ new and monthly active users within 2 months.
- Revamped the mobile architecture, resulting in a more performant, fast, and lightweight application. The modular, de-coupled design enhanced extendability and maintainability.

EARLIER CAREER

- **Kata Digital – Senior Software Developer (2016 – 2017)**
- **U-Hop Transport – Mobile Application Developer (2015 – 2016)**
- **Remote IT Support (Freelancer) (2008 – 2014)**

PROJECTS

UOB TMRW Singapore - Android | iOS

Oct 2022 - Present

UOB TMRW app is a native mobile app from United Overseas Bank, offering a wide array of products from retail banking, rewards management, up to private account investments.

I am a part of the overall L3 core technical group, responsible for the client application deliverables, involves in reviewing change details from multiple product feature teams, and aligning expectations with products, businesses, and Singapore financial regulatory groups.

I am continuously supporting the program by providing recommendations for client side technology enhancements aligning businesses and governance team that aligns and complies with organizational and Singapore regulatory standards.

I am also providing hands-on development enhancements on developer productivity tools like CI/CD pipelines, SDK audits, and vendor coordination and product alignment.

I also offer support to the testing team for any client-side technical inquiries and testing strategies (regression and conditional sign-offs)

I am involved in change reviews (pre and post) to align feature and ensure technical changes are met and adheres to standards and expectations.

Skills: Project Management · Solution Architecture · Governance, Risk Management, and Compliance (GRC) · Application Security · Mobile Software Development

Idempotent Transaction Enhancement - UOB TMRW Singapore

Mar 2024 - May 2024

This is an enhancement project to address the transaction accuracy that impacts multiple customers especially on a high traffic period.

The objective is to resolve the multiple transaction being inserted into the database with having the same transaction details.

I was part of the solutions team and involved in the mitigation and solution design of this program. Worked and participated in the whole delivery stack from solutions design, development, testing, and deployment.

This program was a success and resolves 80% of the previously reported customers who encountered multiple transaction before this enhancement.

Skills: Solution Architecture · Project Management · Production Deployment · Regression Testing · Governance, Risk Management, and Compliance (GRC) · Agile & Waterfall Methodologies

Vendor Failover Enhancement - UOB TMRW Singapore - Android | iOS

Dec 2023 - Jan 2024

This is an enhancement project to address the vendor locking issue in the client app. Being the initiator of this change, I took multiple roles from providing solution architecture to business and EA team, making sure that the proposed solution is aligned with the organization and security standards, aligning testing teams for edge-case scenarios, coordinating with vendor highlighting SDK limitations and solution opportunities, and participating CAB reviews for representative in reviewing pre-post changes up to production deployment.

The project was successful addressing a severity 2 issue that affects 40% of the user base in Singapore for a specific telco provider upon December period - a high-traffic volume period of the year for remittances and cross-border transfers.

Skills: Solution Architecture · Governance, Risk Management, and Compliance (GRC) · Regression Testing · Project Management · Production Deployment

Manulife MOVE (Regional) [HK | SG] - Android | iOS

Apr 2021 - Sep 2022

Manulife MOVE is a regional program by Manulife that promotes healthy lifestyle by tracking physical movements and offering exclusive rewards to insurance policy holders.

I was a part of the delivery group coordinating with regional team members for the overall feature development and enhancements.

Skills: Project Management · Application Security · Mobile Software Development

Distribution Toolkit (DTK) Android - Product Revamp

Sep 2018 - Jun 2021

The Distribution Toolkit is a specialized application designed to streamline agent activities and drive professional management practices. Its core goal is to boost productivity and improve lead conversion through structured workflows.

This project was a revamp from the previous MDM based client application. The objective is to simplify, enhance, modernize, reduce OPEX, and to offer this product to multiple ASEAN countries as a regional solution.

Supported the project in various roles from Solution design, Lead client side developer, vendor and resource management, Aligning testing and compliance teams, deployment champion, budget management.

I was part of the solutions and delivery group, participating from the recommendation, design, development, testing, production implementation up to initial maintenance.

Recommendation: providing guidance and recommendations in mobile design standards that aligns the Solution architecture for overall design and business outcomes.

Design: responsible for designing the client app with the approved technology artifacts approved by the Solution Architecture.

Development: Supported delivery teams by leading the client side development team for delivering all the core and enhanced product features.

Testing: provided assistance to the testing team in the automation testing phase and edge-case testing scenarios

Pen Test Review: participated in Pen-test reviews making sure that the developed features are compliant with the organization and industry software security standards.

Deployment Champion: leads the coordination of the release team with multiple release platforms (Google Play Store / Apple App Store), mitigates and addresses platform concerns ensuring smooth client app deployment.

Skills: Solution Architecture · Technical Project Delivery · Vendor Management · Application Security · Automation Testing · Mobile Software Development

Facial Recognition KYC | G-Cash | Android

Aug 2018 - Oct 2018

Facial Recognition KYC is a product enhancement in G-cash to enable the KYC process inside the G-Cash App by uploading customer's ID together with scanning the customer's face for verification matching.

Was part of the software delivery team and supported the program through the requirement alignment with different vendor teams, overall mobile app feature delivery and testing. Different software teams work in this program in parallel to ensure the objectives and expected outcomes are met with the targeted deliverable timeline.

This program went successfully and retained the brand's recurring active users and returning users by enabling this feature, this cuts the overall onboarding process more than a half by enabling the KYC feature to be done in the app seamlessly.

Skills: Solution Architecture · Project Management · Mobile Interface Design · Mobile Software Development · Unit Testing · Production Deployment

Cash-in to 7-eleven | G-Cash - Android

Aug 2017 - Sep 2018

This is a new product feature by G-Cash to enable cash deposits from 7-eleven kiosks using QR code.

I was part of the development team and supported the program through the overall mobile app feature delivery and testing. I made sure that the third party SDK API integration adheres to the approved artifacts from the architecture and design team. I led the development of this feature in Android platform ensuring required unit tests are in place and adheres to the definition of done.

This program was successful after being launched in 2018. This program increases weekly and monthly deposits to 55% as this program provides a more accessible way to deposit cash without having to go directly into retail banks.

Skills: Mobile Software Development · Application Security · Solution Architecture · Project Management · Unit Testing

Customer referral | G-Cash - Android

Jun 2018 - Aug 2018

This is a new product feature by G-Cash to encourage the public to use the app by providing small token once the mobile app is referred to a friend.

I was part of the development team and supported the program through the overall mobile app feature delivery and testing.

The program was successful and made a breakthrough to the brand's popularity in the Philippines setting a footprint in digital wallet. This made G-cash hit 1 Million monthly active users (MAU) 3 month after this program is released.

Skills: Solution Architecture · Technical Software Lead · Technical Project Delivery · Mobile Software Development · Unit Testing

Product Enhancement - Security Questions | G-Cash - Android

May 2018 - Jun 2018

This is a product feature enhancement by G-Cash to enable app-password reset from the app itself without the need of having to go to G-cash centers for password retrieval and password reset.

I was part of the development team and supported the program through the design refinement, overall mobile app feature delivery and testing.

I made sure that the expected outcome is met by reviewing the stories and segments of this enhancement. I do provided some inputs to refine the product based on mobile best practices. I led the development of this feature in Android platform ensuring required unit tests are in place and adheres to the definition of done.

This program was successful after being launched in 2018. Together with the customer referral program, this solidifies the Monthly recurring users align with the Monthly Active users of G-Cash application in Android, making a significant popularity in the digital wallet space in Philippines.

Skills: Solution Architecture · Project Management · Software Development · Application Security · Unit Testing

EDUCATION

Informatics International College

Bachelor of Science in Information Technology | 2006 - 2008 / Finished 2015

CERTIFICATIONS

- **ICT Assessment Certification for Software Developer** (GovTech / NUS-ISS)
- **Blockchain Technology Advanced Certificate** (UOB)
- **Leadership: Practical Skills** (Manulife)