

RAE-AN ANDRES

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PROFESSIONAL SUMMARY

Experienced and results-driven Senior Software Engineer based in Singapore, possessing over 10 years of professional expertise in leading and mentoring high-performing engineering teams. Core specializations include designing and implementing scalable, performant distributed systems, microservices, and high-impact mobile solutions across diverse sectors, including Commercial Banking, Insurance, and FinTech. Proven ability in full-stack engineering, end-to-end software delivery, and fostering strong cross-functional collaboration. Committed to engineering excellence, code governance, and delivering business value through technology.

TECHNICAL SKILLS

Category	Skills
Architecture & Cloud	SOA, Distributed Systems, Microservices, Modular-Monolith, Event-driven, Containerization (Docker), Cloud, Modularization, Product Line Engineering, Federated Identity, Azure, AWS
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
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

- Led the L3 Singapore engineering team for the TMRW Singapore banking app, overseeing feature design, development, enhancements, and strict code governance, ensuring compliance with organizational engineering standards.
- 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, including facilitating production deployments and orchestrating multiple cross-functional teams post-production.
- Optimized DevOps pipelines and elevated development and observability practices, contributing to faster, more reliable releases.
- Acted as a technical liaison between business stakeholders and the engineering team to translate and resolve complex technical issues and business enhancement requests.

MANULIFE | Singapore

People Leader / Senior Software Engineer

September 2018 – September 2022

- Led and mentored the South East Asia (SEA) mobile engineering team, fostering career growth through regular performance evaluations, 1:1s, and providing direct, transparent feedback.
- Established Brown bags and bi-monthly tech initiative meetings to sharpen the team's technical capabilities and improve professional presentation skills, cultivating a culture of curiosity and continuous learning.
- Provided proactive technical and project guidance, participating in product roadmaps and deciding software change scopes for production deployments.
- Led the development of highly utilized "diamond-grade" mobile applications across SEA (e.g., *Manulife MOVE*, *Distribution Toolkit*).
- Achieved significant OPEX savings (over 60%) by successfully transitioning app projects from internal MDM deployments to public distribution (Google PlayStore / Apple Appstore).
- Collaborated with enterprise architects to design and implement federated identity, which simplified the app login process and increased monthly active users from 500k to 800k.

- Spearheaded the migration of the project codebase from legacy Java to Kotlin, introducing modularity that enabled access to modern language toolsets and feature enhancements.
- Served as the Subject Matter Expert (SME) for mobile security across Manulife's SEA organizations (SG, HK, PH, TH, VN, ID).

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)

EDUCATION

Informatics International College

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

CERTIFICATIONS

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

PROJECT LINKS

- UOB TMRW SG: [Android Link](#) | [iOS Link](#)
- GCash App: [Android Link](#)
- Manulife MOVE: [Android Link](#) | [iOS Link](#)
- Manulife Distribution toolkit: [Android Link](#)