



Pasan Wijesuriya

Senior Software Engineer



A highly accomplished Senior Software Engineer specializing in Mobile Application Development (iOS/Android) across Native (Swift/Kotlin) and Cross-Platform (React Native/Flutter) frameworks, with complementary Web Frontend (React/Vue) experience.

I own the full application lifecycle—from design and API integration through performance optimization and App Store distribution—focusing on exceptional, accessible mobile user experiences and maintaining a robust, scalable codebase.

Skills:

- great communication
- Innovative thinking
- Analytical & Management skills
- Attention to detail
- working under pressure

Contact

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[Click below for professional profile](#)



References are mentioned in cover letter

Work Experience

Polyaire pvt ltd- Lead Software Engineer

2024 Jan to present

KWPX Pvt Ltd Australia – Senior Software Engineer

2022 Jun to Dec 2023

Breeze Services Group Pvt Ltd – Australia – Senior Software Engineer

2018 Aug to 2021 Apr

Freelance & Personal Projects

2021 Aug to 2022 Aug

Lanka Medical Audio – Senior Consultant

2020 Jun to present

John Keels (Pvt) Ltd – Senior Software Engineer

2020 Jan – 2021 Apr

Clear Picture (Pvt) Ltd – Software Engineer

2018 Oct – 2020 Jan

Virtusa (Pvt) Ltd – Software Engineer

2017 Feb- 2018 Aug

Lanka Medical Audio – Junior Software Engineer

(2015 Jan- 2017 Feb)

Education History

Federation University Australia

Master of information technology

Dublin university Ireland

Bachelor of science in computer science

Highlights & Interests

- Special interest for AI related projects
- love innovative challenges
- Flexible across native and hybrid platforms
- love to deliver before deadlines
- love learning
- Lead teams on high end projects

Awards

Best innovative app – Hackathon NSBM 2019

Google cloud certification

GIRA team management 21

Work Experience – Projects and duties

Polyaire Pty Ltd – Lead Software Engineer | Jan 2024 – Present

- Tech Stack: Swift, Kotlin, React Native, Flutter, Firebase, AWS, PHP, Node.js.
- Mobile Leadership: Orchestrated the full-stack evolution of AirTouch, a flagship IoT smart home system.
- Revamped the old IOS code into swift UI for our user app and done the same with java Android into Kotlin (compose) And for the console app we use flutter and for another separate app for real-time device tracking using react Native.
- Innovative Testing: Engineered a Test Automation framework featuring a custom data-binding engine that connects tests directly to the database. This allowed for real-time validation of hardware-to-cloud state changes, ensuring 100% accuracy in remote climate control synchronization.
- Architecture: Developed complex state management in Flutter to handle real-time IoT telemetry, ensuring the mobile UI reflects sub-second changes in home temperature and zone status.

KWPX Pvt Ltd – Senior Software Engineer | Jun 2022 – Dec 2023

- Tech Stack: React Native, Swift (Native Modules), Firebase, PHP.
- Hybrid Mastery: Directed the mobile architecture for OTR and Felix Mobile, utilizing React Native to deliver a unified experience across iOS and Android.
- Native Integration: Authored custom Bridge modules in Swift to handle high-performance tasks and secure payment gateway integrations that required deeper OS access than standard hybrid components allowed.
- CI/CD & QA: Implemented Integration Testing pipelines that simulated user journeys from onboarding to checkout, significantly reducing production bugs in the Felix Mobile app.

John Keels (Pvt) Ltd (JKH) – Senior Software Engineer | Jan 2020 – Apr 2021

- Tech Stack: Swift (UIKit), Java (Android), PHP, SQL.
- Native Development: Led the transition of guest-facing hospitality apps to full native performance. Developed the iOS version using Swift and spearheaded the Android version using Java Android.
- Real-time Systems: Managed the integration of real-time hotel service APIs (bookings/transportation) into the mobile front-end, ensuring low-latency updates for guest requests.

Breeze Services Group – Senior Software Engineer | Aug 2018 – Apr 2021

- Tech Stack: Kotlin, Java, PHP, SQL.
- Android Modernization: Led the migration of legacy Android codebases from Java to Kotlin, improving app stability and developer productivity.
- Backend Sync: Designed the PHP/SQL backend to support heavy mobile traffic, focusing on real-time API performance for payment processing and transaction accuracy.

Clear Picture (Pvt) Ltd – Software Engineer | Oct 2018 – Jan 2020

- Tech Stack: Java Android, PHP, SQL.
- Mobile Enterprise: Developed secure Android-based HR and Payroll tools using Java Android, focusing on encrypted data handling and secure third-party integrations for voting and sensitive employee data.

Virtusa (Pvt) Ltd – Software Engineer | Feb 2017 – Aug 2018

- Tech Stack: Xamarin, C#, SQL.
- Hybrid Origins: Acted as a key developer for government E-learning (Vidu-nana) and gaming projects using Xamarin.
- Cross-Platform Delivery: Leveraged Xamarin.Forms and Xamarin.Native to build interactive, large-scale data applications, managing complex SQL sync logic for offline-first mobile capabilities.

Work Experience – Projects and duties

AirTouch

Lead developer for the AI-powered IoT smart home control system, enabling users to remotely control home climate systems through mobile apps. Integrated AI algorithms to optimize climate control based on user behavior and environmental data, enhancing energy efficiency and overall user experience. Led full-stack development using Flutter, Firebase, and AWS, ensuring seamless integration with smart devices and real-time data processing.

Felix Mobile – Lead Engineer

Spearheaded the development of AI-driven mobile solutions, focusing on integrating advanced machine learning models for user behavior prediction and personalized experiences. Utilized AI to optimize payment systems, ensuring secure and efficient transactions. Built the backend architecture using React Native, PHP, and Firebase, providing a robust and scalable mobile platform.

SmartFleet

Developed a fleet management system integrating AI and IoT to track vehicles in real time. Designed the backend architecture using PHP and Node.js, ensuring smooth communication between IoT devices and the control center. Implemented AI-driven route optimization, improving fuel efficiency and reducing travel time.

HomeSecure

Led the development of an AI-powered home security system that integrated with IoT devices such as cameras and motion sensors. Utilized AI algorithms to analyze security footage in real time, providing alerts for suspicious activity. The mobile app, built using Flutter and AWS, allowed users to monitor and control their home security remotely.

GreenEnergy Hub

Designed a smart energy management platform that integrated AI and IoT to optimize energy consumption in smart homes. AI algorithms analyzed real-time energy usage data from IoT devices and adjusted settings to reduce waste. Built the backend infrastructure using PHP, SQL, and AWS, ensuring real-time data processing and seamless integration with energy providers.

LMA Central

An in-house medical app designed for real-time communication between patients and specialists. Integrated IoT devices and cloud services to facilitate real-time data sharing, improving patient care and specialist responses.

OTR Mobile

Developed hybrid mobile solutions with a focus on seamless integrations with payment systems and backend architecture, ensuring a smooth user experience across platforms.

JKH Online

Custom-built for handheld devices, the app provided full-service integration for hotel guests, including restaurant and transportation bookings, with secure payment processing.

Verifyc

A retail product authentication system leveraging IoT wearables for user tracking, alongside image processing and augmented reality to verify product authenticity in real-time.