

Gayan Perera

Architect/Team-lead Lead Software Engineer

SUMMARY

- Lead Software Engineer with 10+ years in cross-platform enterprise app development using .NET MAUI, Xamarin, and Blazor.
- Expertise in C# (.NET 6/7/8), XAML, React Native, Azure, Firebase, and microservices architecture.
- Proven impact: 35% latency reduction in mobile workforce apps and 40% stability improvement via Firebase Crashlytics integration.
- Skilled in CI/CD pipelines, automated testing (Katalon), and cloud deployments on AWS and Azure.
- Strong background in offline-first mobile solutions, AI agent workflows, and multi-platform app lifecycle management.

TECHNICAL SKILLS

Main Technical Skills	.NET MAUI (3 yr.), C# (10 yr.), Xamarin (7 yr.), React Native (4 yr.), React (4 yr.)
Programming Languages	C# (10 yr.), Python, TypeScript (4 yr.)
.NET Platform	ASP.NET Core Framework, ASP.NET MVC, Autofac, Entity Framework, .NET, XAML (7 yr.)
Mobile Frameworks and Libraries	Crashlytics, .NET MAUI (3 yr.), Xamarin (7 yr.)
JavaScript Frameworks	React (4 yr.)
JavaScript Libraries and Tools	React Native (4 yr.), Redux
Databases & Management Systems / ORM	Cosmos DB, Microsoft Azure SQL Server
Cloud Platforms, Services & Computing	Firebase Cloud Messaging
Azure Cloud Services	AAD, Azure App Service, Azure DevOps, Azure Logic Apps, Cosmos DB, Microsoft Azure SQL Server
Google Cloud Platform	Firebase Authentication
Methodologies, Paradigms and Patterns	Agile, microservices, Scrum, TDD
Deployment, CI/CD & Administration	Blazor, CI/CD
Version Control	Gitflow



QA, Test Automation, Security	Integration testing, QA Automation, Unit Testing
SDK / API and Integrations	Web API
Other Technical Skills	Firebase Firestore, Generative AI

WORK EXPERIENCE

Lead Software Engineer - IFS (Mobile Workforce Management solutions within the IFS Cloud ecosystem)

Duration: 2023 - 2026

Summary:

- Development and leadership of enterprise-grade Mobile Workforce Management solutions integrated with core IFS modules such as Service Management, Asset Management, Scheduling, and Work Orders
- The project focuses on improving field task execution efficiency and mobile app performance within the IFS Cloud ecosystem

Responsibilities:

- Lead design and development of mobile workforce management applications.
- Integration of mobile apps with core IFS modules.
- Architectural redesign using .NET 8 MAUI and modern XAML UI components.
- Optimization of SQLite offline-first caching algorithms.
- Automation of AI agent workflows and deployment pipelines.

Technologies: .NET 8 MAUI, C#, XAML, SQLite, Azure (App Services, Active Directory, SQL DB), React.js, React Native, Firebase (Authentication, Crashlytics, Cloud Messaging), Microservices, PlayStore and AppStore submission, CI/CD Pipeline, Autofac, Redux, Katalon Automation, Xamarin, Blazor Hybrid

Consultant - Virtusa (IM Smart Sort)

Duration: 2023

Summary:

- Development of a React Native mobile application aimed at smart sorting functionalities
- The project involved designing Android use cases aligned with business needs and integrating cloud database and authentication services

Responsibilities:

- Designed commercially viable Android use cases.
- Integrated Firestore cloud database and authentication.

Technologies: React Native, Firestore, Firebase Authentication



Consultant - Virtusa (BT Janga)

Duration: 2022

Summary:

- Development of a React and React Native application involving UI development and state management integration
- The project focused on implementing XAML UI based on third-party layouts and coordinating API and Redux configurations

Responsibilities:

- Developed XAML UI based on third-party layouts using TypeScript.
- Liaised with API and Redux configurations.

Technologies: React.js, React Native, TypeScript, XAML, Redux

Consultant - Virtusa (Billdr)

Duration: 2021 - 2022

Summary:

- Development of a fully functional cross-platform mobile app for iOS and Android using Xamarin Forms
- The project included memory management, build release automation, and integration of app analytics and messaging tools

Responsibilities:

- Developed Xamarin Forms app with focus on memory management.
- Managed build releases using Azure CI/CD pipelines.
- Integrated Firebase Cloud Messaging and app analytics tools.

Technologies: Xamarin Forms, Azure CI/CD, Firebase Cloud Messaging, App Analytics

Associate Consultant - Virtusa (Dealer built)

Duration: 2020 - 2021

Summary:

- Development of
- NET REST APIs and web applications with Azure storage and microservices architecture
- The project aimed to improve application stability and error traceability across multi-region deployments

Responsibilities:

- Developed .NET REST APIs and Web APIs.
- Implemented Azure storage and microservices.
- Embedded Firebase Crashlytics monitoring and centralized logging.
- Integrated Snyk static code security analysis.

Technologies: .NET, Web API, Azure Storage, Microservices, React.js, Firebase Crashlytics, Kibana, Snyk



Associate Consultant - Virtusa (Pratt & Whitney TRACKIT)

Duration: 2018 - 2019

Summary:

- Enterprise mobile adoption project across iOS and Android platforms using Xamarin Forms and
- .NET Web API backend
- The project included Azure Active Directory authentication and CI/CD release pipelines to ensure security and performance

Responsibilities:

- Developed multi-platform mobile applications using Xamarin Forms.
- Implemented .NET Web API backend services.
- Managed Azure Active Directory authentication.
- Handled CI/CD release pipelines and app store deployment.
- Managed software updates, patches, and performance optimization.

Technologies: Xamarin Forms, .NET Web API, Azure Active Directory, CI/CD, App Store deployment

Associate Consultant - Virtusa (BallPots App)

Duration: 2019 - 2020

Summary:

- Development of a mobile application using React Native with cloud-based build and release management
- The project involved client communication and coordination to deliver functional mobile implementations

Responsibilities:

- Developed mobile functionalities using React Native.
- Managed build and release processes via Azure Cloud DevOps.
- Communicated with clients and coordinated project activities.

Technologies: React Native, Azure Cloud DevOps

Associate Consultant - Virtusa (Pratt & Whitney T&E)

Duration: 2017 - 2018

Summary:

- Design and development of a native mobile app using Xamarin Forms for Pratt & Whitney
- The project focused on collaboration with product management and full-stack UI and business layer development

Responsibilities:

- Designed and developed native mobile app with Xamarin Forms.
- Collaborated with product management team.
- Contributed to full-stack UI and business layer development.



Technologies: Xamarin Forms

Software Engineer - Virtusa (Pratt & Whitney MY APPROVAL)

Duration: 2017 - 2018

Summary:

- Development of APIs, Entity Frameworks, and mobile applications for iOS and Android platforms
- The project included
- NET Web API development and collaboration with the development team for coding and design

Responsibilities:

- Developed API and Entity Frameworks.
- Developed mobile apps for iOS and Android.
- Collaborated with development team on coding and design.
- Performed unit testing for robustness and reliability.
- Communicated with clients and updated project status.

Technologies: .NET Web API, Entity Framework, Xamarin

Associate Software Engineer - Virtusa (AVIVA INSURANCE)

Duration: 2016 - 2017

Summary:

- Design and development of mobile applications for iOS and Android platforms using Xamarin Forms
- The project included development of responsive UI kits, business and network layer implementation, and unit testing

Responsibilities:

- Designed and built mobile apps using Xamarin Forms.
- Developed responsive UI kits for mobile and tablet devices.
- Maintained code quality and implemented business and network layers.
- Performed unit testing.

Technologies: Xamarin Forms

EDUCATION

- **Anglia Ruskin University - UK**
Master of Business Administration (MBA)
2017 – 2019
- **Staffordshire University - UK**
B.Eng. (Hons) Computer Software Engineering
2013 – 2016



CERTIFICATION

- AI Agents and Agentic AI with Python & Generative AI Crash Course

