

Sahan Singappulige

Senior Lead Full Stack Developer | Technical Lead

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Full-stack developer and technical lead with approximately 14 years of experience developing enterprise applications and leading technical delivery. Hands-on expertise in C#, .NET, React, Angular, SQL Server, cloud platforms, and system integration. Managed teams of 9-15 developers for restaurant digital commerce, 1-4 developers for nationwide POS management, and 3 developers for enterprise product and warranty management. Experienced in API design, data workflows, developer mentorship, and cross-functional Agile delivery.

Education

- BSc in Information Technology, Sri Lanka Institute of Information Technology (2012)
- Diploma in Web Development, Turnkey IT Academy (2011)
- Diploma in Web Designing, Beyond Basics College of ICT (2010)

Core Skills

Languages & frameworks: Python, C#, .NET Framework, .NET Core, ASP.NET Core, ASP.NET MVC, ASP.NET Web API, JavaScript, Node.js

Frontend: React.js, Angular/AngularJS, Knockout.js, Sammy.js, jQuery, HTML5, CSS3, Bootstrap, Tailwind CSS, SASS/LESS, Webpack

Data: Microsoft SQL Server, SSIS, Oracle Database, PostgreSQL, MongoDB; SQL development and ETL

Cloud & DevOps: Microsoft Azure, Google Cloud Platform, AWS, Azure DevOps, GitHub Actions, Docker, Kubernetes, Git

Architecture & practices: RESTful APIs, microservices, enterprise integration, Agile/Scrum, technical design, code review, mentoring

Additional experience: Sitecore/Sitecore Commerce, SharePoint, PowerShell, POS management integrations

AI tools: Anthropic Claude, OpenAI GPT (ChatGPT)

Work Experience

Aetna (CVS Health), USA / Virtusa Corporation (February 2020 - Present)

Total Lateral Comparison & Validation (TLC); Web-Based Claims Management Application (WMMA)

Business Problem: TLC is a GCP-hosted internal utility for large-scale data comparisons, validation, reconciliation, and ETL-related workflows. WMMA is a web-based insurance claims management application supporting claims review, approvals, auditing, and administrative workflows.

Technologies: C#, .NET Framework 4.7, .NET Core, ASP.NET Core, ASP.NET Web API, React.js, JavaScript, Bootstrap, Tailwind CSS, Webpack, SQL Server, SSIS, RESTful APIs, GCP, AWS, GitHub Actions, Git.

Project Role: Senior Lead Full Stack Developer. Responsibilities include:

- Lead full-stack delivery of internal enterprise tools using React, .NET, ASP.NET Core, RESTful APIs, and SQL Server.
- Build and maintain data validation, comparison, reconciliation, and ETL functionality for TLC.
- Develop claims-review, approval, and audit workflows for WMMA, integrating frontend screens with backend services.
- Design and optimize SQL queries, stored procedures, and SSIS packages for processing and data integration.
- Support cloud-hosted applications and CI/CD workflows using GCP, AWS, and GitHub Actions.
- Mentor developers, conduct code reviews, and collaborate with product owners, QA, analysts, and client stakeholders.
- Troubleshoot production defects and improve application performance, reliability, and maintainability.

Bloomin' Brands, USA / Virtusa Corporation (May 2018 - February 2020)

Digital Commerce Platform

Business Problem: Azure-hosted commerce platform supporting restaurant brand websites, online ordering, menus, loyalty and rewards features, and promotions for Outback Steakhouse, Carrabba's Italian Grill, Bonefish Grill, and Fleming's.

Technologies: Azure, Azure DevOps, C#, .NET Framework 4.7, .NET Core 2.0, ASP.NET Web API, Microsoft Service Fabric, AngularJS, Sitecore, Sitecore Commerce, Docker, Azure Kubernetes Service, RESTful APIs, microservices.

Project Role: Senior Lead Full Stack Developer. Responsibilities include:

- Managed an offshore development team of 9–15 developers for the digital commerce platform, coordinating assignments, technical delivery priorities, and collaboration with client-side stakeholders.
- Provided day-to-day technical leadership, code reviews, mentoring, and support for issue resolution and delivery quality.
- Developed and enhanced full-stack digital commerce capabilities using .NET, ASP.NET Web API, and AngularJS.
- Built APIs and backend components for ordering, menu, loyalty, and promotional workflows.
- Integrated Sitecore and commerce services with backend systems and third-party components.
- Contributed to service architecture, code quality, and cloud deployment activities on Azure.
- Coordinated offshore development with business, product, and QA stakeholders to deliver reliable customer-facing features.

McDonald's, USA / Virtusa Corporation (February 2017 - June 2018)

RSM Dashboard – POS Resource Monitoring and Management

Business Problem: Centralized dashboard for monitoring POS devices across US restaurant locations. PowerShell automation collected device information for server-side storage and reporting; the application also supported coordinating software updates to distributed POS systems.

Technologies: C#, .NET Framework, ASP.NET, ASP.NET MVC, Angular, JavaScript, Bootstrap, SQL Server, PowerShell, RESTful web services, HTML5, CSS3.

Project Role: Senior Software Engineer. Responsibilities include:

- Managed a development team of 1–4 developers for the RSM Dashboard, coordinating work assignments, technical implementation, progress, and delivery.
- Guided developers through design discussions, code reviews, troubleshooting, and collaboration with QA and infrastructure teams.
- Built and maintained dashboard features using ASP.NET MVC, Angular, and SQL Server.
- Developed backend services to support monitoring and administration of distributed POS devices.
- Used PowerShell scripts to collect system information and support automated administrative tasks.
- Implemented data processing and database features for device monitoring and reporting.
- Contributed to workflows for remotely distributing and tracking POS software updates.
- Coordinated with architects, QA, and infrastructure teams on troubleshooting, testing, and releases.

MICROS Retail & MICROS Restaurant / Virtusa Corporation (February 2015 - June 2016)

MyCentral – Commerce and Restaurant Integration Platform

Business Problem: Enterprise integration framework connecting consumer channels with MICROS retail and restaurant systems, including online ordering, call centers, payments, kiosks, and mobile interfaces.

Technologies: C#, .NET Framework, ASP.NET, ASP.NET MVC, SQL Server, Oracle Database, MICROS Symphony, web services.

Project Role: Senior Software Engineer. Responsibilities include:

- Built and maintained ASP.NET and MVC application components for restaurant commerce integrations.
- Developed backend services linking customer-facing ordering channels to MICROS systems.
- Supported integrations for ordering, payment processing, kiosks, and call-center workflows.
- Developed and optimized SQL Server and Oracle data-access logic.
- Worked with on-site architects and QA teams to implement features, review designs, and resolve defects.
- Reviewed code, documented implementation details, and mentored junior developers.

Pearson Education / Virtusa Corporation (2014 - 2015)

Pearson Exchange – Educational E-Commerce and Course Management

Business Problem: Web-based platform for educational resource discovery, textbook purchasing, and course material access for students and instructors.

Technologies: Node.js, JavaScript, AngularJS, jQuery, Bootstrap, HTML5, CSS3, SASS, LESS, SQL Server, WebStorm, Visual Studio 2013.

Project Role: Senior Full Stack Developer / Technical Lead. Responsibilities include:

- Developed frontend and backend features using AngularJS, Node.js, and SQL Server.
- Supported textbook browsing, educational content access, and course-related workflows.
- Created responsive interfaces and maintained reusable frontend components.
- Built and optimized database queries and server-side data handling.
- Coordinated feature delivery, reviewed code, and supported debugging and testing.
- Collaborated with business, architecture, and QA teams on application improvements.

United Technologies Corporation (UTC) / Virtusa Corporation (January 2014 - June 2014)

Taylor Data Management – Product, Parts, Returns, and Warranty Management

Business Problem: Enterprise web application supporting product records, parts management, returns, warranty claims, and associated administrative workflows. The system used a single-page application approach, backend services, database components, and SharePoint integration.

Technologies: C#, Node.js, JavaScript, Knockout.js, Sammy.js, SPA, SharePoint, SQL Server, HTML5, CSS3, dynamic stylesheets, web services.

Project Role: Senior Full Stack Developer / Technical Lead. Responsibilities include:

- Managed a 3-person development team, coordinating implementation work, providing technical guidance, reviewing code, and supporting delivery of product, parts, returns, and warranty management features.
- Implemented application features for product information, parts, returns, and warranty workflows.
- Built SPA views with Knockout.js data binding and Sammy.js routing.
- Developed backend application logic using Node.js and C#.
- Created and maintained SQL Server queries and data-access components.
- Contributed to SharePoint integrations and dynamic UI styling.
- Collaborated with the development team and stakeholders on design reviews, bug fixes, testing, and release readiness.

AKLO Information Technologies (2012 - 2014)

VIDLO SKY 12 – School Management Platform; Broker Back Office Management System

Business Problem: VIDLO SKY 12 was a school administration solution for managing educational and operational information. The Broker Back Office Management System supported administrative and transactional workflows for stockbroking activities associated with the Colombo Stock Exchange.

Technologies: C#, .NET Framework, Node.js, JavaScript, Knockout.js, Sammy.js, SPA, Oracle Database (broker back office), SQL Server, HTML5, CSS3, dynamic stylesheets, web services.

Project Role: Software Engineer. Responsibilities include:

- Developed and maintained modules for school administration and stockbroker back-office workflows.
- Implemented web interfaces and backend functionality using C#, JavaScript, and related frameworks.
- Developed database components using SQL Server and Oracle, as appropriate to each application.
- Supported application integration, data processing, validation, and reporting.
- Worked with senior developers and stakeholders on feature requirements and technical implementation.
- Diagnosed defects, supported testing, and maintained technical documentation.