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Top Skills

Agents
Large Language Model Operations
(LLMOps)
.NET

Languages

English (Full Professional)
Sinhalese (Native or Bilingual)

Certifications

Microsoft Certified: Azure
Fundamentals
Agile Foundations
Professional Scrum Master I
Microsoft Global Hackathon 2024

Dasith Wijesiriwardena

Forward Deployed Engineering @ Microsoft | Speaker and Blogger |
DistSys, Agents, Security, Observability
Melbourne, Victoria, Australia

Summary

I am a polyglot software engineer with experience in consulting environments as well as solution architecture. I have been working with Microsoft technologies for close to 2 decades. My focus is distributed systems and I have extensive experience in development across the stack. In most of my development projects I employ an Agile method of development with emphasis on good design principles, manageable codebases and scalability. These days I mostly utilize Azure offerings to design & deliver cloud native solutions for enterprise customers while working closely with Microsoft product teams and open source community to advance the eco-system. Visit my blog @ <https://dasith.me> for more. I cover any topic from security to domain driven design there ;) My public speaker profile can be found here: <https://sessionize.com/dasiths/> Currently my attention is on cloud native solution architecture, agentic patterns, observability and security: > Engineering production ready GenAI & LLM based solutions, designing & building agentic solutions for scale. > Exploring emerging patterns for agentic identity and security for enterprise, helping improve the MCP and A2A specifications and SDKs. > Designing observable solutions backed by OpenTelemetry and contributing to OTEL GenAI semantic conventions. > Helping improve the supply chain security posture for customers and OSS. > Running intelligent systems on edge using Kubernetes and modern GitOps workflows. My stack usually consists of the following..NET, ASP.NET Core, Python, Typescript, Golang Azure / AWS / Edge (PaaS, Serverless, Kubernetes)

Experience

Microsoft

5 years 7 months

Principal Software Engineer

September 2025 - Present (1 year 1 month)

Melbourne, VIC

Continuing on the work with Industry Solution Engineering (ISE) team with a focus on AI engineering. As a part of the Microsoft Forward Deployed Engineering (FDE) practice I get to work with some of the largest customers in the APAC region while also closely collaborating with the Microsoft product groups and OSS community.

Senior Software Engineer

April 2022 - September 2025 (3 years 6 months)

Melbourne, Victoria, Australia

Working in the Commercial Software Engineering (CSE) team providing my expertise with distributed systems and DevOps practices to customers around the world to tackle their most significant technical challenges.

The Microsoft CSE team works closely with customers to find creative solutions while also upskilling their developers to carry the project forward to a production-ready solution.

More about the CSE team here <https://devblogs.microsoft.com/cse/about/>

Senior Consultant

March 2021 - April 2022 (1 year 2 months)

Melbourne, Victoria, Australia

Working in the Azure Cloud & AI domain for Microsoft Consulting Services division as an application development consultant. Providing expertise with solution design and app development with a focus on engineering excellence. Primarily using the .NET stack utilising Azure PaaS, Serverless and Kubernetes. Discovering real world use cases and contributing back to internal product teams, community open source projects and Consulting Services IP.

Mentoring and leading teams of varying sizes and varying levels of agile maturity both at Microsoft and externally. Role responsibility areas include implementing best practices (Agile, DevOps, DevSecOps), assisting in digital transformation, technical leadership for delivery and app modernisation.

As a development focussed consultant, working closely with product managers and key stakeholders to realize value. Working on a mix of greenfield and brownfield projects for enterprise and large organisation in the Asia Pacific region with teams that are often dispersed across multiple geographical regions and time zones.

Telstra Purple

1 year 4 months

Lead Consultant

October 2020 - March 2021 (6 months)

Melbourne, Victoria, Australia

Helped government and enterprise clients with technically risky engagements. Designed and built scalable software solutions using a mix of public clouds. Trained, upskilled and transitioned client teams through agile transformation and DevOps/DevSecOps. Helped teams through app modernisation and containerisation of legacy workloads using managed orchestration engines like Azure AKS, AWS ECS and EKS.

Senior Consultant

December 2019 - September 2020 (10 months)

Melbourne, Australia

Continued on the same stream of work done at Readify after the Telstra acquisition and Telstra Purple rebranding. Focussing more on enterprise and larger clients build modern cloud native solutions and provided expertise with app modernisation. Helped design and develop modern identity solutions for cloud applications and utilize best practices for DevOps/DevSecOps. Ran team upskilling initiatives for clients and helped nurture an agile culture to align with modern software development practices.

Readify

Senior Developer

March 2017 - December 2019 (2 years 10 months)

Melbourne, Australia

Worked as a consultant and provided my expertise and technical skills to clients of varying sizes across Australia from finance to telecommunication industries. Mainly used the .NET stack with PaaS solutions utilizing Azure and AWS cloud. The responsibilities included taking on technical leadership, mentoring client teams and assisting with agile transformation. As a Readify consultant often took part in solution architecture discussions and helped the customers realize their goals while finding the best value for them.

Key responsibilities

- Design and architect solutions.
- Provide technical leadership on projects and train client teams.
- End to end delivery and CI/CD.
- Assist in agile transformation and influence best practices.

Whirlwind Print

Principal Developer

June 2016 - February 2017 (9 months)

Melbourne, Australia

Took ownership of a previously developed monolith and was in charge of phasing it out through micro services. Developed a messaging middleware system using RabbitMQ for current and future B2B integration for trade partners. Other projects included custom solutions for E-Procurement & PunchOut catalogs for big nationwide clients like AusPost. Helped the company form the IT strategy to become the best trade printer in Australia.

I was responsible for...

- Phasing out the current integration platform.
- Continuous improvement of the Print MIS and workflow.
- Helping the business form IT strategy around B2B services.
- Provide technical expertise in integrating with clients' procurement systems and ERPs.

I used the following technology stack,

- ASP.NET WebAPI based REST service to expose monolith to the integration platform.
- RabbitMQ with EasyNetQ to communicate between micro services and to act as integration layer.
- Consul and Microphone for service discovery and load balancing.
- SoapUI for testing the WCF and REST end points.
- Topshelf to build windows services that self host micro services. Currently in the process of trying to move to a Docker based solution.
- EventStore for event storage, SQL Server as relational database and Redis for caching.

Luxton Plant

Lead Developer

May 2009 - June 2016 (7 years 2 months)

Melbourne, Australia

Responsible for design and development from inception an in house information system that has Asset Management, Rental, Sales and CRM, Stock, Workshop and Accounting modules. The design includes ability for multiple users / customers / suppliers to work from all over the world simultaneously and in different currencies using many devices and platforms. The most in depth software system in the 'Plant Hire' industry that has the

ability to integrate with many 3rd party software through SOAP, REST and other API's on windows and the cloud. The architecture includes a windows client, SQL Server DB and web service layer for the cloud integration.

- Used Windows Forms controls and LINQ-SQL / Entity Framework (ORM) for rapid development.
- Developed custom user controls for business process based data entry and easy manipulation with extensive use of the DevExpress Winforms suite.
- WCF SOAP Web Service & ASP.Net WebAPI REST Service end point to support future development of HTML5, Tablet and Smartphone apps.
- Developed web portal for customers and suppliers using ASP.Net MVC & jQuery promise pattern.
- AngularJS + WebAPI based single page mobile web application for job sheet entry of mechanics.
- Designed a 250+ table MSSQL database using SSDT, used profiler to optimize, created required views, index, stored procedures and set up proper backup plans.
- Used various cryptography and hashing algorithms (BCrypt, Rijndael) for security and encryption.
- Integrated with Google/Bing/OpenStreet maps, Australian Business Registry, MYOB, QuickBooks and other financial reporting and analysis software.
- Wrote extensions and API for 3rd party software to interoperate with this ERP. Included .Net class library & WCF NetPipe / TCP / WebHTTP endpoints and additional direct access to SQL views.
- Exchange Web Service, Outlook add-in and MailChimp integration for CRM module.
- Windows Service on Windows Server to monitor exceptions, sync data, run month end processes and report via email.

Native Innovation

Software Developer

April 2004 - October 2006 (2 years 7 months)

Colombo

Led a small team of developers for a medium sized IT firm. Responsible for providing end to end solutions to clients from both government and private organizations. Developed software solutions for HR management, distributed systems and native language communication. Developed enterprise software solutions for Sri Lanka Telecom and worked closely with Microsoft Sri Lanka and ICTA (Information and Communications Agency of Sri Lanka) implementing localization projects.

- Developed and managed SinhalaSP the first fully Unicode supported native language software solution and was recognized by the ICTA and Microsoft® Sri Lanka. (youtu.be/Xq5fpFy3Q6Q)
- Barcode based card check-in HR and Payroll solution for textile industry.
- Localization of various Teleprompter software for 2 biggest media outlets in Sri Lanka.
- PHP / Apache / MySQL and Adobe Flash based intranet solutions for Sri Lanka Telecom.
- Was promoted to Lead Software Developer in just three months as a Junior Developer.

Skills Gained:

- Mapping a business process into a software solution and migration.
- Iterative development practices and requirement change management.
- Use of software versioning tools and technology like SVN.

Education

Swinburne University of Technology

MASTER, INFORMATION TECHNOLOGY · (2008 - 2009)

Swinburne University of Technology

BACHELOR OF SCIENCE, INFORMATION TECHNOLOGY · (2007 - 2008)

SLIIT

BSc, Computer Science · (2004 - 2007)

D.S.Senenayake College, Colombo 07

Advanced Level, Mathematics · (1996 - 2004)