

About me

●Ever growing passion to learn. ●10 years in software development with Microsoft technology stack. ●Built complex synchronisation services to various remote systems. ●Experienced in developing front to backend development for features and stories. ●Worked in fast-paced agile/dynamic startup culture with experienced Microsoft developers/consultants. ●Jump to help unblock team mates and mentor them. ●Gutsy enough to jump in, investigate and solve issues. ●Code quality first, before anything else. ●Exited from OneSaas recently due to successful business acquisition.

Career Summary / Summary of Skills

● DRIVEN TO SEEK FOR AGREEABLE SOLUTIONS.

- Thrilled to acquire new knowledge and get hands dirty with challenges.
- Working with Microsoft stack (C#, .NET 6, SQL Server 2019, Azure Cloud)(Refer to Technical Skills section).
- Experienced working in a dynamic start-up culture.
- Experienced and knowledge in Open Banking, eCommerce, Accounting, Education and Mining domains' problems and solutions.

Relevant Work Experience / Employment

.NET Developer - Strategic Roadmap

Jul 2021 - present

Newcastle Permanent Building Society Limited, Newcastle, New South Wales

Technology /
Frameworks /
Libraries / Design

- Setup, improve and maintain Azure Resources. (Azure Cloud)
(Service Bus, App Service, App Function, AzureAD, Application Insights).
- Setup web services on Internet Information Service on Windows 2012 and 2019 Server.
(IIS, Windows 2012, 2019)
- Test-Driven Development. (NUnit 3)
- Implement of Role-base access control and Single-Sign On (SSO) with AzureAD.(AzureAD)
- Rest API documentation implmentation. (Swashbuckle.AspNetCore and Swagger UI)
- Implement structured logging. (Azure Application Insights, Angular 12)
- Improved On-Premises logs.(Serilog and custom logging templates)
- Design and implement database schema for Open Banking.(SQL Server 2019)
- Migrate codebase from TFS repository to git repository in Azure DevOps.(Git, TFS)
- Develop applications in .NET 6 Framework.
- Migrate existing applications from .NET 3.5-5 to .NET 6 Framework.

Business
deliverables and
collaboration

- Working on Open Banking project as part of Customer Data Right.
- Working with consultants and contractors to communicate expectations and deliverables support.
- Work closely with business analysts and QA analysts for early testing and verification.
- prioritising high value stories and tasks for the business.
- Work with stakeholders to educate the project progress status for process improvement.
- Adhere and improve SDLC to define definition of ready and done for developers.

Dev Admin tasks

- Technical presentations on Azure Stack to Tech Team and Community of Practices.
- Peer and Code Review. (Verify for code readability and code coverage.)
- Overlooking setup and testing with Azure Resources in VNET.
- Setup build and deployment processes with TeamCity and Octopus Deploy.
- Verifying DEV and UAT environment data in Oracle database.
- Cost analysis and setup Azure Service Bus.
- Implement client credential grant flow between Azure Resources and on-Premise services.
- Documenting technical design and specifications.
- Task breakdown and management with JIRA.
- process and technology documentation with Confluence.
- Setup and verification on Development environments on Azure and virtualised Windows Servers.
- Investigating on UAT environments when faciliating QA.
- Contributing to technical discussions and ideas in alignment with business vision.

Relevant Work Experience / Employment - Continue

Software Developer

Mar 2021 - Jun 2021

Sympli Australia Pty Ltd, Sydney, New South Wales

Technology /
Frameworks /
Libraries / Design

- FrontEnd UI (React, NodeJS.)
- Web Application Framework (ASP.NET Core, .Net Core, REST API).
- Cloud Provider (AWS - SNS-SQS messaging service,)
- Messaging Services (AWS SNS - SQS Messaging Service, DynamoDB).
- Version Control Systems (GitHub).

Business Domain

- Developing workflow process in e-Conveyancing and e-Settlement domain.

Software Developer

Mar 2016 - Dec 2020

OneSaas Integration Pty Ltd, Sydney, New South Wales

Technology /
Frameworks /
Libraries / Design

- FrontEnd UI (Aurelia.io, NodeJS.)
- Web Application Framework (ASP.NET Core, .Net Core, REST API).
- Hybrid JSON language support and extension (Sprache parsing engine).
- Enterprise Distributed Framework (Akka.NET).
- Database analysis, design and implementations (MSSQL 2019, Entity Framework).
- Cloud Services (Azure, Azure DevOps, Bitbucket, Jira, Confluence).
- Version Control Systems (Git, Mercurial, Subversion).
- Object-Oriented Design and Analysis.
- Test-Driven/Behaviour Driven/Domain Driven Development.

Story and Feature
Developments

- Analysis, design and implementation of data synchronisation between SaaS systems.
- Design and implement REST APIs for highly scalable and configurable purpose.
- Implemented hybrid JSON language parser support.
- Developed on backend integration microservices.
- Developed and improved web console/portal for Admin Support.

Business Domain

- Integration Platform for automated synchronisation of financial data.
- Implementation with OAuth and HTTP protocols.
- Develop with REST API.
- Diagnostics and improvements with ever-changing Domain requirements.
- System integration development with partner services (MYOB, QuickBooks Online, Xero, Kounta, Shopify etc...).
- Design analysis with implementation plan and execution with integration prototyping and development.
- Research and documentation on Paypal API for potential business opportunities and requirement.
- Data migration from older version to new version of the SaaS product.

Dev Admin tasks

- Design documentation in Confluence Wiki.
- Execution plan with JIRA sprint tickets.
- Code review on pull requests and in occasional pair programming and mentoring.
- Code Assessment for security, performance and scalability.
- Assisting and mentoring QA-Test engineers.
- Perform Dev Support duties(BAU).

Relevant Work Experience / Employment - Continue

Software Developer

Apr 2014 - Jan 2016

Country Net Software Pty Ltd, Central Coast, New South Wales

Technology stack used in implementation	<ul style="list-style-type: none">• Design and implement database schema (SQL Server 2014).• Design and implement backend services and database for finance component(C#, .NET Framework, SQL).• Implemented basic UI controls(AngularJS 2.0, Javascript, HTML5, CSS3).
Backend Feature and Story Developments	<ul style="list-style-type: none">• Multithreaded/event-based programming Windows Service development.• Web API development.• Object-Oriented Programming and Analysis.• Test-Driven Development.• Database analysis and implementation.
Development Processes	<ul style="list-style-type: none">• Integration with Victorian Student Registry via web services System integration with Xero API.• Integration with SMPP/SMS and Mandrillapp API.• Integration between products and Brisbane Catholic Education(BCE) identity server (ADFS) for Single Sign-On(SSO) with Windows Identity Foundation (WIF) library.• System integration with other vendor products R&D with integration prototyping and development.
Backend Development	<ul style="list-style-type: none">• Participate in Scrum/Kanban and DevOps processes.• Contribute to continuous improvement on SDLC processes.• Knowledge sharing.
Business Domain	<ul style="list-style-type: none">• School Management System in private Cloud.
Dev Admin tasks	<ul style="list-style-type: none">• Design documentation in Confluence.• Task planning and execution in JIRA.• Refactoring code to quality and test builds in Bamboo.• Worked with TFS and migrated to Git repository.• Spike on open source frameworks and libraries for integration purpose.

Junior Software Engineer - Product Development Team(Fleet)

Nov 2012 - Apr 2014

Minlog Australia Pty Ltd, Newcastle, New South Wales

Technology stack used in implementation	<ul style="list-style-type: none">• Industrial Tablet App for Fleet Management System (.NET 4.0, 3.5 and WCF Framework, C#/C++/C and Visual Basic 6.0 languages).• Implemented multithreading for TCP/IP sock programming to hardware interfaces(Remote I/O modules).• UI Development with Model-View-ViewModel (MVVM) pattern (WCF and Caliburn.Micro).
Development Process	<ul style="list-style-type: none">• Compliance to SDLC process and code review.
Code Quality Practices	<ul style="list-style-type: none">• SOLID principles in programming with TDD, BDD and DDD methodologies.

IT System Engineer - Integration of Systems

Mar 2010 - Mar 2012

Advanced Micro Devices (AMD), Singapore

- Developed with ASP.NET, JavaScript, .Net 3.5 Framework, C# and SQL programming languages.
- Developed Windows Integration Services.
- Developed test code with NUnit Framework.
- Developed Resource Planning (Capacity Resource Planning and Material Requirements Planning) Systems with SQL Server 2008, .Net 3.5 Framework and C# programming language.
- Developed automated builds for deployment with MS Build.
- Documented software requirements and designs with Unified Modelling Language.

U 1 84 Showground Road
Gosford
NSW 2250
Australia

Joseph Saravanan Ganesan

Mobile : +61 4 15680487
E-mail: joseph.saravanan.ganesan@gmail.com

Education

Bachelor of Engineering(Computer Engineering, Honours Class 2 Division 2)

Jul 2005 - Jul 2010

University of New South Wales, Faculty of Engineering

- Achieved above-credit average in most hardware and computing related subjects.
- Specialised in embedded hardware.
- Related Coursework / Focus as below:

Hardware	<ul style="list-style-type: none">– Worked on projects in assembly language.– Hands-on problem-solving interfacing with digital and analogue components.– Programming FPGA with VHDL.– Learnt on the design and implementation of certain computer architecture.
Operating System	<ul style="list-style-type: none">– Learnt the concepts of Operating System and their implementations.– Understood implementation constraints in topics such as process management, resource.– Programming operating system kernel with C programming.
Electronics	<ul style="list-style-type: none">– Understand the theory on small-signal analysis with Bipolar-Junction Transistors (BJT) and MOSFET circuits.– Understand their fabrication methods/processes and use of MOSFET to implement digital gates and logics.
<ul style="list-style-type: none">• Major Project<ul style="list-style-type: none">– Honours topic: "VLSI Design in Router Security".– Study on Ternary Content Addressable Memory (TCAM) architecture for packet classification in Router Network.– Improvements to the design on the Novel SRAM-based architecture to shorten the processing time.	

Technical Skills

The following skill sets were acquired while pursuing my undergraduate studies in Computer Engineering, experience gained during employment in various organisations and during participation of IT projects while in those organisations.

- **Languages:** C#, Java, C++, C, Python, SQL, HTML5, CSS3, Typescript \ Javascript, Perl, VHDL, ARM assembly.
- **Cloud Platform:**Microsoft Azure, Azure Devops, AWS.
- **Software Tools:** MS Visual Studio 2019 and 2017, SQL Server Management Studio 2019, Azure Data Studio, Azure Storage Explorer, Eclipse Photon IDE.
- **Operating Systems:** Windows 10 Professional, Windows 2012 Server, FreeBSD, Debian and Centos
- **Database:** Azure CosmosDB, Azure SQL Database, SQL Server 2019, MongoDB, PostgreSQL.
- **Open Source Libraries/Frameworks:** Sprache, Antlr 4.0, Aurelia.IO, TestCafe, Spring.Net, NLog, log4Net, Caliburn.Macro, NUnit Framework, Moq and Rhino Mocks.

Language Skills

Fluent in written and oral in English and Tamil.

Personal Interests

Interests : Reading, Research on Open Source Software/Hardware Development and Technologies, follow software design and architecture discussions, talks and standards. Work on Arduino and Raspberry Pi boards, Xilinx Development board and participate in Social/Professional Network groups.

Other Personal Details : Keen to learn new technology and always looking to learn new tricks. Proud Australian citizen to contribute towards Australia's interests and values. Possess Full Driver's License, Judo student.

Referrals

Professional and academic references available upon request.