**Solution Architect/Azure Architect with Data & Insights**

# PROFESSIONAL SUMMARY

Experienced the Solutioning the software development with cloud and on-prem platform such as Oil and Gas domain, and Automation of Content Management domain. Works collaboratively with customers and stakeholders to increase the productivity, optimization and value add to the business. Proficiency in the application development with both waterfall and agile (scrum), scaling, process automation and application development, maintenance & support (ADMS). Also, having expertise in Data Analytical line including Date Engineering and Architect for data warehouse.

# CORE COMPETNCIES

* Proficient in designing solutions using Azure with developing scalable and cost-effective architectures aligned with business goals.
* Familiarity with computer networks and IT security management.
* Proficient in diagnosing and resolving architectural bottlenecks for enhanced system performance.
* Cloud & On-Premises applications development and maintenance and migration.
* Adopt DevOps & Agile Methodologies and providing solution though modernization approaches such as Agile/Scrum and TDD framework and Cloud Platform.
* Gather and analyze computer systems requirements. Gather requirements from various business areas.
* Develop architectural design and integration for complex, cross-functional systems. Develop solutions and/or alternative methods of proceeding through architecture and detailed design.
* Provide guidance in the areas of technical architecture & design, implementation and operations of software applications.
* Determine appropriate computer software to alter systems and architect designs. Define infrastructure for design and integration of computing systems by determining platform architecture, working PoC.
* Perform system code review and solution mapping; evaluate proposed technologies and frameworks.
* Perform technical evaluation of existing Architecture and design Re-Architecture plan.
* Identifying the best practice in industry and applying it into automation/application development.
* Extensive experience in Microsoft.Net Technologies and Automation Tools.
* Strategic technology support and technical advice to business development.
* Recognized as a proactive individual who can give optimum result of automation feasibility to sales & marketing team and execute the project fast track mode
* Enterprise Data Warehouse (EDW) Design & Development
* The Fit-to-Standard mindset
* Leadership & Team Development

# TECH-STACK

|  |  |
| --- | --- |
| Cloud | Azure and Azure resources, ADO, CI/CD, Jenkins |
| Business Process Design | MS Visio |
| GUI/IDE/Framework | VB.Net, ASP.Net, C#.Net (Till VS2022 with FW 4.8), Entity Framework |
| Web App & Tools | MVC, jQuery, AngularJS, JSON, Kendo UI, Telerik, XML, SSRS, SSIS, IIS |
| Data Analytics & Insights | ADB, ADF, Synapse, Data Robot, App Insights (with Kusto), Azure Functions, Azure Logic-App, Azure Fabric, knowledge of Aveva PI |
| Databases & Tools | SQL Server, Teradata, Oracle, MS-Access, and MySQL |
| Analytical & Visualization tools | Microsoft Power BI & Spotfire. |
| Tools & Utilities | TFS, VSTS |
| Automation Tool | RPA UiPath Studio |
| Domain Knowledge | Oil & Gas (Energy & Utility), Content Management and Product Development |
| Language | Perl & Python |
| Project Execution Methodologies | Agile/Scrum, Kanban, TDD |

# KEY PROJECTS & ACHIEVEMENTS:

* Developed MSA, a modernized web-based application (tech-stack: AngularJS, C#.Net, API, ADLS, Logic-App, Key Vaults, ADF, ADB) designed to transform the measurement and management of ground surface deformation by introducing innovative methods that surpass current InSAR and Tiltmeter tools. This sustainable solution enabled Thermal Diatomite asset teams to implement optimized operating strategies, incorporating alternative approaches to prioritize cyclic injection for enhanced efficiency. The application significantly streamlined workflows, resulting in up to 60% time savings for subject matter experts and operators, while supporting data-driven decision-making and sustainable operational practices.
* Developed the Shallow Heat Management Tool, a web-based application (tech-stack: AngularJS, C#.Net, API, ADLS, Logic-App, Key Vaults, Power BI) seamlessly integrated with the Enterprise Data Warehouse (EDW), to effectively track shallow heat events and related activities. This tool ensures compliance with regulatory requirements while supporting the efficient operation of the SJV License. By providing enhanced functionalities, greater accessibility, and a more robust user experience compared to the previous MS Access version, the tool increased productivity by 30% or more and significantly streamlined operational processes.
* Developed the Auto Abandonment Tool to streamline idle well management processes in SJV, utilizing Azure resources and machine learning models (including data robot). Automated the classification of wells as "Abandon," "Review," or "Future Utility," accelerating compliance with CALGEM regulations and improving operational efficiency.
* Acquired in-depth knowledge of the LDAR (Leak Detection and Repair) system to enhance regulatory compliance and operational efficiency. Facilitated data integration from a third-party application (Guideware) into Chevron ADLS using scheduling tools and Crystal Reports. Using Azure cloud resources to provide actionable insights for business decisions, achieving up to $280K savings per resource and ensuring compliance with California regulatory standards, thereby avoiding NOVs (Notices of Violation) and fines.
* Salvage Perforation project focused on identification and ranking using machine learning to enhance production by developing an effective workover opportunity identification tool. Designed a machine learning model using Data Robot to minimize OC work time spent on identifying salvage perforations, achieving a 50%-time savings. Quantified incremental production gains through feature engineering and measured operational improvements, driving efficiency in workover identification processes.

# PROFESSIONAL EXPERIANCE

**Solution Architect**

*TechMahindra America Inc. – Contract to Chevron | Bakersfield, CA. | Jun-2022 to till now*

* Gather and analyze computer systems requirements. Gather requirements from various business areas.
* Develop architectural design and integration for complex, cross-functional systems. Develop solutions and/or alternative methods of proceeding through architecture and detailed design.
* Provide guidance in the areas of technical architecture & design, implementation and operations of software applications.
* Determine appropriate computer software to alter systems and architect designs. Define infrastructure for design and integration of computing systems by determining platform architecture;
* Perform system code review and solution mapping; Evaluate proposed technologies and frameworks.
* Communicate with staff or clients to understand specific system requirements.
* Document design specifications, installation instructions, and other system-related information.
* Verify stability, interoperability, portability, security, or scalability of system architecture.
* Collaborate with engineers or software developers to select appropriate design solutions or ensure the compatibility of system components.
* Evaluate current or emerging technologies to consider factors such as cost, portability, compatibility, or usability.
* Provide technical guidance or support for the development or troubleshooting of systems.
* Identify system data, hardware, or software components required to meet user needs.
* Provide guidelines for implementing secure systems to customers or installation teams.
* Monitor system operation to detect potential problems.
* Working and handling in FTE and Managed Service model.
* Lead and priorities the Application Support team’s work load and managing L3-L4 and working business criticality.
* Provide input to application/infrastructure scalability.
* Perform all Agile Scrum ceremonies and adopting DevOps for all development and migration application.
* Managed and led a multidisciplinary team of BI developers, data analysts, and data architects to drive strategic data initiatives.
* Oversaw the creation and maintenance of data feeds and data presentation layers within the Enterprise Data Warehouse (EDW).
* Accountable for delivery.

**Solution Architect**

*TechMahindra Limited. – Contract to Chevron | Chennai, India | Oct-2020 to Jun-2022*

* Determine appropriate computer software to alter systems and architect designs. Define infrastructure for design and integration of computing systems by determining platform architecture;
* Collaborate with engineers or software developers to select appropriate design solutions or ensure the compatibility of system components.
* Lead and priorities the Application Support team’s work load
* Managing L3-L4 and working business criticality.
* Provide input to application/infrastructure scalability.
* Perform all Agile Scrum ceremonies and adopting DevOps for all development and migration application.
* Develop and implementing the automated deployment solution (CI/CD) using Jenkin
* Developed and managed SSRS reports for operational needs, ensuring accuracy and accessibility of critical data.
* Team handling and Accountable for delivery.

**Technical Project Manager (ADMS)**

*TechMahindra Limited. – Contract to Chevron | Chennai, India | Mar-2018 to Oct-2020*

* Lead the development and maintenance of architectural assets for the data domain
* Successfully developed Azure based iChatBot and it is under implementation stage.
* Migrated 11 on-premises applications to Azure Cloud environment (including PaaS and IaaS).
* Work with business user for requirement and prepare POC.
* Designed, implemented, and supported an integration solution in Azure cloud
* Technical guidance to team member in term of code review
* API development using MS Graph and Azure Active Directory for entire organization requirement and Application Integration

**Technical Project Manager (Product Migration Lead)**

*TechMahindra Limited. – Contract to Boral | Sydney, Australia | May-2017 to Mar-2018*

* Lead the EAM Product Migration team and helps technically and non-technically to migrate the product.
* Successfully completed the IBM Maximo migration from 4.1 to 7.6 in AWS Cloud environment.
* In addition, performing Scrum Master to conduct all ceremonies, and update all the details into JIRA board.
* Defining and executing on the technology migration strategy by engaging myself, and technical teams within AWS.
* Assessing migration feasibility, identifying dependencies and overcoming obstacles.
* Soliciting feedback from customers and influencing future iterations of the Maximo
* migration in AWS platform and migration programs.
* Act as a player-coach, leading the team but also actively leading customer engagements and deals.
* Also, involved in Data Reconciliation and validation as part of the integration and solution validation / verification.

**Technical Project Manager (Service Delivery)**

*TechMahindra Limited. – Contract to Volvo | Chennai, India | Sep-2016 to May-2017*

* Delivering 12 application support and development with accountable for Enterprise Architecting.
* Participate, conduct daily meeting with technical team, update into dashboard, and present to the customer.
* Identifying dependencies and overcoming obstacles, also guide the team for all solution aspect in term of technical and non-technical.
* Soliciting feedback from customers and proving appropriate solution.

**Project Lead (ADMS)**

*TechMahindra Limited. – Contract to Chevron | Chennai, India | May-2014 to Sep-2016*

* Design and development the greenfield (new) application as per requirements.
* Helping Production Support & Maintenance for 10 critical applications in Finance platform including Bug fixing, Enhancements & Maintenance.
* Managed the team by coordinating with the team members to deliver based on the customer expectations
* Extended help to the team whenever they are having facing issues in their deliverables (both Technical & Process oriented)
* Process Automation and Automate of Repetitive Technical tasks such as housekeeping, data-updating etc.
* Technical migration activities such as environmental upgrade, version upgrade etc.
* Coordination with various teams such as JDE/SAP/Legacy for any major change & technical migration activities.

Here is an additional list of companies I have worked with, complementing the ones mentioned earlier.

* **Technical Manager-IT** | Datapage India Pvt Ltd | Chennai, India | Sep- 2013 to Jan-2014
* **Lead Consultant (Software Support Group)** | Datamatics Global Services | Chennai, India | Aug-2007 to Sep-2013
* **R&D Project Manager** | Newgen Imaging Systems | Chennai, India | Oct-2006 to Aug-2007
* **Application Engineer** | Lason India Ltd. | Chennai, India | Sep-2004 to Oct-2006
* **Software Developer** | Techset India | Chennai, India | Mar-2003 to Apr-2004
* **Developer/Executive** | Laserwords Ltd | Chennai, India | Jan-2001 to Mar-2003

**Roles & responsibilities with Achievements above companies in a nutshell**

* Providing the holistic view of data and insights that illustrating the storage, processing, and access.
* Evaluate and recommend emerging technologies for data management, storage, and analytics in Azure Cloud Platform.
* Participating architecture and develop technical solutions from a business requirement.
* Perform and understand business requirement and convert into technical solutions/projects and POCs.
* Identifying the best practice in industry and applying same into automation/application development.
* Hands on experience in developing Cloud Based Solutions using Microsoft Azure and good knowledge on PAAS, IAAS Applications, Application Insights, and Azure API based development including Microsoft Graph API.
* Working knowledge in Active Directory and Enterprise Directory.
* Knowledge om third party tools such as Telerik, Kendo UI and Java Scripts.
* Prepare & conduct the meeting with customer like Monthly cadence, Quarterly Governance Meeting and all ad hoc
* PM/PMO activities.

# CERTIFICATION

|  |  |  |
| --- | --- | --- |
| **Certification** | **Institution** | **Year of Passing** |
| Microsoft Azure Solution Architect | Microsoft | 07/2022 |
| Agile Scrum Master (ASM) | EXIN | 06/2017 |
| ITIL Foundation V3 | EXIN | 09/2016 |
| ISMS Internal Certification | Internal (Datamatics) | 10/2012 |
| Six Sigma Green Belt Program and certification | Internal (Datamatics) | 06/2011 |
| Diploma in Web Programming (DWP) | IGENESIS | 12/2000 |
| Microsoft Certified Solution Developer (MCSD) | Microsoft Parametric Center | 12/1999 |
| Higher Diploma in Software Engineering. (HDSE) | APTECH | 09/1999 |
| Certificate in Computing | IGNOU | 12/1998 |

# EDUCATION/CERTIFICATION

* Master of Computer Application, IGNOU.
* Bachelor of Arts, Guru Nanak College, UNIVERSITY OF MADRAS.

Sincerely,

Gnanasekaran S