



ARIEDDIN SHEIK

Email: arieddin.sheik@gmail.com | Mobile: +91 - 8341135255 | www.arieddin.com

LinkedIn Profile: <https://www.linkedin.com/in/arieddin>

Hyderabad, India

Certified Enterprise Architect – TOGAF & AWS



Professional Summary

Enterprise Architect with over 11 years of successful experience in Enterprise Software Architecture and Development. Highly skilled in designing solutions for High Performance and Data Security based on **OWASP10 Standards**. Experience in implementing Projects across Banking, Insurance, Healthcare, Real Estate and Manufacturing industries. Simultaneously led major projects, with multiple teams, in Application Development and Infrastructure successfully.

Achievements

Developing solutions to solve real world problems is what I seek. As an entrepreneur, founded and led a technology solution providing company that helped its customers achieve their technical and business roadmap. As a Solutions Architect, I also coalesce between the client and our teams to make sure we follow all the guidelines, processes, and procedures, provide high level technical designs, provide a holistic view of end-to-end design and implementation of highly available, secure, and scalable enterprise applications.

Skills

1. Design Architecture for High Performance Applications with focus on **Data Security** to secure critical PII (Personally Identifiable Information)
2. Handled Automation Projects in **UiPath** and **Automation Anywhere** across all stages in Requirement Analysis, Solution Design, Development, Testing and Deployment
3. Ability to identify and differentiate both RPA and Non-RPA use cases and suggest right automation/integration solutions to Customer
4. Experience in Designing Cloud Specific Enterprise Applications using services in **Microsoft Azure, Amazon Web Services and Digital Ocean** involving Virtual Machines, App Services, Auto Scaling, API Management, DNS, CDN, Build Management, Queues, Jobs, Functions, Storage, Backups, **Disaster Recovery**, etc.
5. Designed and implemented solutions based on various technical stacks like .Net (MVC, WebAPI, Core), NodeJS, Java Spring Boot, PHP, Angular and React involving different databases like MSSQL, MySQL, MongoDB, Dynamo DB & PostgreSQL.
6. Hands on experience in Windows Server and Ubuntu Linux – App/Web/Database Services & Packages with advance knowledge in Networking and Firewalls.
7. Experience on working with IAM tools like AWS IAM, Microsoft Azure Active Directory, Okta and KeyCloak
8. Work closely with Information Security Team for resolving security issues identified in **VAPT Audits**. Incorporating best practices to mitigate security vulnerabilities during SDLC stages. Experience on working with different encryption and hashing algorithms to maximize data security on both Cloud & OnPrem systems
9. Integrated multiple **SSO Solutions** based on Active Directory, SAML (IDP & SP Initiated) and OAuth 2.0.
10. Implement and Integrate Cloud Telephony solutions based on Asterisk (VICIDial, GOAutodial and FreePBX)
11. Advance knowledge on **Virtualization** across different products like VMWare Workstation, VMWare Fusion, VMWare Player, Windows Hypervisor, VirtualBox and Parallels.
12. Project Management – **Agile Methodology**, Impact analysis and risk assessment.
13. IOT - RaspberryPi, OpenWRT, ATMega32, etc. visit my blog <https://arif-ece.blogspot.com>
14. Contribute to the **Business Development Process** by participating in sales calls, assist/lead proposal development efforts and delivering client presentations
15. Follow user-centric approach to design solutions to simplify user experience. Business-minded, capable of identifying the most effective solution at every turn, for every part of the architecture
16. Excellent Debugging Skills to perform Root Cause Analysis for fixing performance and security issues

Professional Experience

1. **Family Health Plan Insurance TPA Limited** | Head – Information Technology(July 2022 – Present)
2. **Boston Consulting Group** | Solutions Architect (Nov 2021 – May 2022)
3. **Procode Softech Private Limited** | Founder and CTO (Feb 2015 – Oct 2021)

4. **Freelance Developer** | .Net Full Stack Developer (*July 2011 – Feb 2015*)

Major Projects in Cloud Computing

1. **Digital Factory** | Solutions Architect | *A leading bank in Vietnam*

The objective of this project is to provide seamless Digital Experience to customers in the entire loan application process. This project involved understanding all the existing core banking systems and design architecture for the entire loan management and automation journey. I have been instrumental in all stages of architecture design and development process including project management related activities in Jira & Confluence. The architecture and DevOps process is designed using AWS Cloud. Shift left approach is considered in the DevOps and Automated Testing process to reduce bugs/issues and avoid additional development efforts to address bugs/issues. Terraform scripts were also written to manage and automate provisioning of infrastructure. The system connects to lot of On-Prem systems like CDP, Loan Origination System, Credit Information Center, Credit Scoring System, CIF/CASA Core banking systems, Sales Application, etc.

Key Responsibilities

- a) Understand the existing IT Landscape and capabilities of each system
- b) Coordinate with Product Team for feasibility check and suggest technology inputs
- c) Evaluate different products/services to create a robust solution and application architecture
- d) Create detailed architecture diagrams, technical workflows and Infrastructure diagrams connecting On-Prem and Cloud Services (EC2, API Gateways, Firewall, Storage, etc.) meeting the needs of DevSecOps, High Availability, Security, Scalability & Disaster Recovery
- e) Design architecture based on **MicroServices** Architecture involving various components and systems.
- f) Entire solution is designed using the services available in AWS Cloud in compliance with AWS Well Architected Framework and got certified by independent AWS Well Architected Framework Audit team.
- g) Setup and share best standards and processes for architecture development, collaboration between multiple teams working on individual use cases
- h) Conduct Workshops to client resources on Architecture, Agile Methodology, Project Management and Coding practices
- i) Onboard SI vendor and manage the overall development phase adhering to OWASP10 standards
- j) Project Monitoring including daily review of progress using Burndown charts, Jira tasks & bugs, etc
- k) Introduce and ensure all kinds of Non-Functional tests like VAPT & Performance (Stress, Load, Soak) are performed and benchmarks are achieved in the final output
- l) Tools Used: Miro, Jira, Atlassian, Jenkins, Selenium, SonarQube, DependencyTrack, etc.
- m) Tech Stack: Spring Boot, React, Docker, MySQL, KeyCloak, AWS Cloud Watch, S3, etc.

2. **UR Life** | Solutions Architect & Squad Lead | *Apollo Life*

The website was earlier hosted in a dedicated server in a Data Center. Since the website is open to public and article posts are promoted by Prominent Media Personalities, there was sudden surge in traffic whenever posts are published by influencers. The current infrastructure was not able to meet the connections and public traffic. To meet the sudden surge and increase the throughput of website, we have migrated the complete infrastructure to AWS involving Route53, S3, CloudFront, RDS and EC2 instance. Autoscaling is configured to meet the needs of scalability and availability.

Key Responsibilities

- a) Design end-state architecture using cloud native services available on AWS
- b) Work closely with Product Team in all stages of UI/UX and requirements management
- c) Lead team of developers (FE, BE, Mobile App) for application development
- d) Introduce secure development practices during coding, testing and deployment
- e) Design DevOps architecture including CI/CD and implement

3. **Migration of Applications from On-Prem to Microsoft Azure** | *Family Health Plan Insurance TPA Limited*

This project involved migration of all the on-prem applications and databases to Microsoft Azure. I was responsible to work closely with Infrastructure, Application and Database Teams to identify all the application dependencies and plan the migration. All the VMs were completely migrated successfully along with ASR Setup. A DR Drill was also performed

to test the DR capabilities of the infrastructure and application. I have made certain recommendations to further optimize RTO for restoring applications from DR Site.

Key Responsibilities

- a) Prepare a roadmap and project plan to identify all applications including key-stakeholders for the migration process
- b) Analyze the architecture, compatibility of applications and suggest Architectural Changes to Application teams to make the compliant with cloud deployment
- c) Design architecture for backup and DR

Major Projects in Software Development

4. Contact Center 2.0 | Family Health Plan Insurance TPA Limited

The contact center team had to access different applications which involves significant amount of time to search and retrieve data. The AHT (Average Handling Time) for each call is also high because the agent should browse through different applications to provide information to the end customer. The solution involved development of Angular 11 (Single Page Application) to reduce dependency on multiple applications. All the actions (Mostly 90% Database Read) are provided in a single screen, thereby eliminating the need for agent to browse through multiple applications and provide support from single page directly. This solution also resulted in reduced training to contact center agents.

Key Responsibilities

- a) Understanding the existing solution and tasks performed by Contact Center Agents
- b) Completely redesign the UI/UX with minimal user clicks
- c) Tech Stack: Angular, .Net core, MS SQL

5. ERP Implementation | Phoenix Real Estate Group

Phoenix has shortlisted StrategicERP for their operational requirements. The goal was to understand the as-is process and requirements from end users and to identify gaps in ERP. The missing features must be communicated to the ERP Vendor's Technical Team for further changes/enhancements. The responsibility also includes Project Management to oversee the ERP Implementation and identify both technical and operational roadblocks.

Key Responsibilities

- a) Analyze the as-is process and documenting the steps
- b) Conduct meetings with key stakeholders and gather requirements
- c) Evaluate various Vendors/solutions and finalize
- d) Prepare an implementation plan involving different phases and owner for each module/phase
- e) Suggest process enhancements and changes keeping in view of features available in ERP
- f) Conduct and manage regular training sessions

6. Enrollment Automation | Family Health Plan Insurance TPA Limited

The project involves processing data received from multiple insurance companies into a single format, with all master data validations. The solution involved developing a .Net based desktop application to parse data from Excel/Pdf files and prepare the final output which can be fed into Core Insurance Software. Data validations are performed by connecting to Read-only Database Server Nodes for optimizing performance. By introducing this tool, the average time spent to format and validate the data by users was brought down to 2 mins from existing 30 mins.

7. VAPT Mitigation | Family Health Plan Insurance TPA Limited

As a part of compliance, the customer applications undergo VAPT by various stakeholders like Insurance Companies and Corporates. The project involved fixing security vulnerabilities identified in the VAPT findings. It requires good amount of knowledge for understanding the report, ability to reproduce the issue and fix it with right solution. OWASP10 best practices are followed for fixing the issues.

8. Application Development & Data Encryption | A leading healthcare company - Confidential

The goal of this project is to develop a secure system to manage the entire Pacemaker implant process including tracking the entire journey. This project involved securing critical PII related to customer like Name, Address, Date of Birth, etc. in various stages. A 360-degree approach is developed to encrypt the critical information during data-in-transit and rest. The parameters were securely encrypted at browser before they were sent to App Service Layer via SSL. Further the parameters were encrypted using AES256 Bit Encryption Algorithm and then securely sent to Database server. The project has met all requirements to secure complete PII during entire request cycle. Passwords are also hashed using argon2 algorithm.

9. Covid Live Classes | Apollo Life

On the onset of pandemic, the customer wanted to conduct Live Covid Classes with Experienced Doctors for Corporate Customers. The solution involved integrating Vimeo for live video, polls, Q&A. The registration and real time links and notifications were sent through WhatsApp along with feedback URLs.

10. Microsoft SQL Always ON High Availability | Family Health Plan Insurance TPA Limited

As customer's business grew, their core application database also grew with millions of records in several tables. Prior to the new solution, a single database is used for all Read/Write operations including user dashboards in landing pages post login. The solution involved deploying Microsoft SQL Always ON with 1 Write and 2 Read Nodes (1 each for Read Queries and Dashboards). A listener is configured to direct read/write connections for respective nodes. The performance of the application increased significantly after this implementation.

11. Apna Loan Bazaar | Software Developer

This is a Loan Management Solution which provides various services related to Consumer and Business Loans. My role in this project includes development of modules related to Interest Rate Calculators, Credit Score Estimator, EMI reminders and FD Calculators. I have also developed IFSC finder module which caters the need of consumers to find Bank IFSC information. The technology stack is based on ASP.Net MVC, MSSQL, jQuery and Bootstrap.

12. Best Tax Filer | Software Developer

Best Tax Filer is an accounting and taxation service provider who primary provides Taxation services to US Customers. Integration of CRM with Call Center is performed using various APIs to fetch customer information from CRM for Call Center Agents. C# .Net Web Services were written to fetch data from MySQL Server and integration with CRM.

13. eBook Automation | Software Developer

This project involves validation of XML Tags for e-Publication Processing. A Desktop Application based on C# .Net 4.0 is developed for users, to insert the complete Markup Code to validate it for schema errors. The data was then auto-formatted as per eBook specifications.

Major Projects in Robotic Process Automation

1. MIRO Automation | Gemini Edibles and Fats

Automation of 'Accounts Payable' process which involves extraction of relevant data from non- native invoice PDFs using UiPath's Document Understanding and OCR models, followed by data entry into SAP and sending notifications to finance team for validation and clearing payments.

2. Employee Offboarding Process | Hindware Group

Business Users send an email to the BOT with an excel attachment listing down all the employee to be offboarded. BOT reads the email, picks the email ID of the employee to be offboarded. Based on the email ID domain, the bot removes the employee from the concerned email groups in the domain. Secondly, BOT deactivates the email ID. Thirdly the bot fetches the employee's SAP user ID from a reference excel file, logs into SAP, and locks SAP ID. Fourthly, the BOT downloads SAP BO reports excel from the Client's NetWeaver application, replaces the employee ID with admin ID in all the sheets, and re-uploads the updated BO report to the portal. Lastly, the BOT deactivates the Biometric Credentials of the employee and sends a consolidated mail to the admin team notifying them of the outcome details of each step.

3. Schedule vs BOQ Linking | Phoenix Real Estate Group

A typical real estate project BOQ consists of more than 2000-line items. Similarly, Project Schedule consists of around 500 to 700 activities. The bot downloads Project BOQ and Schedule information from ERP in excel format and performs

the linking actions with respect to floor wise quantities. Post linking, BOT also performs quantity validations so that sum of all quantities of each item is matching as per BOQ in ERP. Introducing bot in this process reduced TAT from 7 days to 5 hours.

4. Service Center Bills Process | Hindware Group

To automate the current manual process for the ASC Service Centre Bills Processing into the SAP system. BOT logs into application used by Service Centers and downloads (excel & pdf). Bot then logs into SAP and enters the invoice details service center wise and uploads pdf attachments. The invoice is posted in SAP and the generated document reference number is upload back in Service Center application again. 100% automation is achieved saving 2 FTE for the customer.

Few More Projects: visit www.arieddin.in to understand more about my work experience involving different projects.

Education & Trainings

- Completed Bachelor's Degree with Distinction, in Electronics Communication Engineering, in the year 2011 from Swarna Bharathi College of Engineering, Khammam, Telangana.
- Completed Mastermind for Business Acceleration Course and certified from Quantum Leap Learning Solutions Pvt Ltd.
- Completed Landmark Forum Self Expression and Leadership Program

Certifications

- AWS Certified Solutions Architect – Associate – [Verify here](#)
- TOGAF® 9 Certified – [Verify here](#)