VAMSEE KARANAM

CONT A CT

*Cary, NC 27519*

SKI L L S

Azure, Azure AD/Entra Id, AWS, Databricks, Unity Catalog, Delta Live Tables, Synapse, Kusto, Talend, Mulesoft, Informatica, Oracle, EMR, Glue, Azure Data factory, Snowflake, Salesforce, Cosmos DB, Neo4j, Couchbase, Postgres, Siebel, AKS, AWS Athena, Hadoop, Cloudera, DynamoDB, MongoDB, Logic Apps, Azure API Management, Kafka, ActiveMQ, SQL, JAVA, Python, Microservices, Data lake, Azure DevOps, Azure OpenAI, Vector Databases

PR O F I L E

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# SU M M AR Y

* **Azure Cloud Experience (7 years)** : Azure certified Solution Architect with 7 years of experience in Azure cloud. Architected Systems for various clients in Azure cloud leveraging Azure SaaS and PaaS. Right from the blueprint phase I played a crucial role in building this platform from the ground up. The services I used include Databricks, Azure Data Factory, Synapse, APIM, Logic Apps, Azure Data lake storage, Functions, AKS, CosmosDB, Azure SQL managed instances, Event Grid and Azure DevOps.
* **ETL/ELT Experience**: 10+ years of ETL and Data experience using tools like Synapse, Databricks, Talend DI & ESB, Informatica, Azure Data factory, AWS Glue, AWS EMR, Cloudera Hadoop. Proficient in SQL and Python.
* **Solution & Data Architecture**: Vamsee Karanam has 20 years of overall IT experience and 10 years as a cloud solution architect. Skills vary from analyzing the infrastructure needs, Cloud vendor assessment, application platform choice, ETL tool assessments and reporting platform assessments.

Performing proof of concepts, building the various components and interfaces, interacting with various teams both onsite and offshore, ramping up the support team are various activities of my daily routine.

* **AWS Cloud Experience(5+ years)**: 5+ years of experience in the AWS cloud. Services used are EC2, S3, EMR, Athena, Glue, Kafka, ActiveMQ, DynamoDB, Talend, RDS(Oracle) and Snowflake.
* **Generative AI Experience(1 year)**: Exploring Gen-AI capabilities on Azure OpenAI platform for Safety reporting and Regulatory Submissions.

Experience with Langchain, Microsoft’s Autogen AI agent, generating embeddings, storing in vector databases like ChromaDB and Azure Search.

* **CRM Experience**: A decade experience in CRM space as Siebel CRM architect and developer. Salesforce certified developer.
* Techno-functional expertise with a blend of strong interpersonal skills is what you can expect out of me. I work alongside business and IT leadership to create alignment and sustainable execution process.
* **Clients**: IQVIA(AHA – American Heart Association, ACS – American College of Surgeons, Pfizer) , Merck pharmaceuticals, Janssen pharmaceuticals, Celgene, Blue Cross and Blue Shield of North Carolina, One Call medical and Lowes.

# SKI L L S , T O O L S & T E C H N O L O G I E S

* Azure Databricks - Delta Live Tables, Unity Catalog, Spark Streaming **(4 years)**
* ADLS, Azure Synapse Analytics, Azure Data Factory, Kusto, APIM, Logic Apps, Event Hub, KeyVault, AKS, Functions, CosmosDB, Azure Monitor, Azure DevOps **(5 years)**
* Other ETL tools – Talend, Informatica, Glue, Mulesoft **(2 years)**
* AWS – EC2, S3, Glue, EMR,

DynamoDB, KMS, RDS, Athena

## (3 years)

* Estimation and Gap analysis
* SQL Databases – Oracle, Postgres, Snowflake
* NoSQL Databases – CosmosDB, Couchbase, MongoDB, DynamoDB, Neo4j, Redis
* Data Modeling
* Confluent Kafka, AWS MSK, Azure Event Hub. **(3 years)**

# HOB B I E S & I N T E R E S T S

* + Playing Cricket and Badminton
	+ Rebuilding and tuning my 92 classic Miata
	+ Reefing (Salt water Fish and Corals)

# CL I ENT S

**Solution & Data Architect Employer: IQVIA** | Durham, NC

*Apr 2010 – present*

https://[www.iqvia.com](http://www.iqvia.com/)

## Client: ACS – American College of Surgeons Azure Databricks

* + Designed and built the lake house (medallion architecture) using Databricks and orchestrated the jobs using Azure Data Factory
	+ Data from various source systems had to be extracted using ADF pipelines and ingested to ADLS bronze layer.
	+ Configured Delta-live tables for near real-time processing of the IoT datasets.
	+ Configured Unity Catalog per Databricks standards.
	+ Expertise in performance tuning the notebooks and jobs using various spark configurations and code.
	+ Built CICD pipelines in Azure DevOps to build and deploy resources across various environments using PowerShell scripts.

## Client: AHA – American Heart Association Azure Synapse Analytics

* + Built pipelines using Dataflows and copy activity to copy over the raw data into the data lake.
	+ Created Linked Services to connect to various sources and targets like Dedicated SQL pools, ADLS, Kusto database, etc using System Managed Identity.
	+ Leveraged Synapse notebooks in pipelines to perform lookups and transformations using Pyspark.
	+ Built dataflows and orchestrated them in pipelines to move data from bronze to silver and then to gold layers for Analytics usecases.
	+ Populated data in ADX/Kusto (Analytics Store/ Data Explorer) in batch mode. Power BI would run reports and generate dashboards out of this data.
	+ Extensively worked on Python in Synapse notebooks for the past 6 years.

## Client: Iqvia(Internal Projects) Azure Experience:

* + Designed the network topology in Azure using VNets, Subnets, VPN Gateway, Express Route and palo alto firewall (F5 networks).
	+ Worked on Azure B2C by leveraging user flows and custom policies. Enabled facebook and google IDPs. Enabled yahoo IDP using openID connector.
	+ Building the various 3rd party integrations using Logic apps, Functions, Event Grid, Azure SQL Managed Instances, CosmosDB and exposing them using APIM.
	+ Integrated the IHP(Integrated Health Platform) with a third party telehealth system which provide video conferencing features for the patient and the provider. Azure APIM for REST APIs, logic apps and CosmosDB were leveleraged for this feature.
	+ Integrated IHP with a IBMCD (EDC system) in batch mode using Databricks.
	+ Integrated IHP with 1UPHealth using REST APIs. 1UpHealth connects to various EDC systems and sites to fetch the EHRs, convert them to FHIR format and expose the data via REST APIs in both bulk and individual resource types. Mulesoft, ADLS, Logic Apps were used to achieve this functionality.
	+ Built an Eventing framework using Azure Event Grid, logic apps, Data Factory and SendGrid(email and SMS). This also includes Error handling framework.
	+ Setup Azure DevOps pipelines for Synapse. Configured the connection to the repo, created the YAML files for buddy, PullRequest and Official release. Setup the connection service, release pipelines to deploy the notebooks, pipelines, dataflows and linked services to higher environments with the respective parameterized configurations.

## Other ETL tools & Experience

* + Built various pipelines in ETL tools like ADF, Talend, AWS Glue.
	+ Built dataflows in Mulesoft, performed mappings and transformations to extract data and write to Confluent Kafka topics.
	+ Worked on Informatica (v9) to load the Clinical Trial Management System’s data into a warehouse.

## AWS Experience:

* + Implemented the registry platform in AWS. Was heavily involved in the exploration phase of the various AWS PaaS and SaaS tools evaluation and pricing.
	+ Leveraged Cloud formation templates to automate instantiation of EC2 instances (redhat linux) and deploy the registry application (java, spring mvc, reactjs) backed by Oracle in RDS (multi zone for HA).
	+ Designed and built various integrations leveraging ETL tools and AWS services, some of which included EC2, S3 storage, Talend, Kafka managed service, RDS (Oracle), EMR (spark), AWS Lambda, AWS glue and Snowflake.
	+ Architected and built an interface for Cancer registry for which data from file uploads would have to be extracted and pushed to Kafka topics (AWS MSK). Spark jobs on EMR would consume the data from the topics and load to Snowflake DWH.
	+ Built a reconciliation framework using Athena to find any missing data/updates between the registry application and the DWH.
	+ Was involved in the installation of Talend ETL job and ESB servers. Built Talend ETL jobs and routes to consume the feed from the registry application from ActiveMQ queues, parse the dataset and load it into Oracle database.
	+ Built various ETL jobs in Talend to load data for migrating the on prem data to RDS (oracle). These were run on the Talend job servers.
	+ Leveraged Splunk as a centralized logging service. AppDynamics for monitoring the performance of the application and databases. Bluestripe for network performance and issues. Oracle OEM for database issues and tuning.

**CRM Consultant Lowes** | Mooresville, NC

*02/2010 - 04/2010*

https://[www.lowes.com](http://www.lowes.com/) Responsibilities:

* + Created the design for Leads, Customers, Activities and documented the same in Technical Specification documents based on the specs provided.
	+ Built prototypes in Siebel to accommodate the business requirements process and rules in Siebel. Configured all the UI related objects, views, screens, escript for customization, etc.

Validated the components developed by the offshore team and made sure they followed Siebel best practices and performed Unit Test reviews.

## CRM Consultant

**Celgene Pharmaceuticals (BMS)** | Warren, NJ

*05/2009 - 01/2010*

[www.bms.com](http://www.bms.com/) https://[www.celgene.com.au](http://www.celgene.com.au/) Responsibilities:

* + Built an Interface between Clin-Phone and Siebel CTMS. The vendor transfers Protocol Site Subject info in XML files on daily basis to a shared drive. From there CELTRAK(Siebel CTMS) reads the files and processes them sequentially.
	+ Worked on an Inbound Interface between ICON and CELTRAK with SOA where Oracle Service Bus acts as the middleware. The interface involves WebServices and HTTP Transport.
	+ Configured Integration Objects and Business Service. Created an Inbound WebService which contains Siebel port/transport information and generated a WSDL out of it. Oracle Service Bus imports this WSDL and uses the port information to submit XMLs to CELTRAK.
	+ Configured error handling for workflows by sending an email automatically using the ‘Outbound Communication Manager’ to the admin whenever an exception happens in workflows. This process is generic to all Interfaces.
	+ Installed the Siebel Charts Server and made the Siebel Charts functionality available for Protocols, Countries (Region), Contracts and Sites.

## CRM Consultant

**Blue Cross Blue Shield of North Carolina** | Durham, NC

*10/2008 – 04/2009*

https://bluecrossnc.com Responsibilities:

* + Designed and developed the data model/configuration for Tracking Experience module for Large Group Opportunities (Account Opportunities). Each Tracking Experience would have a Program and Solution associated with it. This functionality was achieved by cloning the out of the box Product Line/Product model.
	+ Developed the Custom Business Component for Tracking experiences based on the Source table in Siebel and cloned the Product Line/Internal Product BCs for Programs and Solutions respectively.
	+ Configured List/Form/Pick Applets, Views, Screens for displaying the Tracking Experiences, Programs and Solutions information under Large Group Opportunities (Account/Oppty).
	+ Scripted the Custom Business Service to call a workflow which in turn creates the request property set, converts it to XML, then calls the proxy business service which in-turn triggers the webservice call via HTTP and gets back the response from OneView. The response gets past a bunch of business rules in the workflow, then formatted and displayed on the Siebel UI.
	+ Followed Siebel Best practices while scripting and configuring workflows considering Performance with VBC and WebService calls.

## CRM Consultant

**Federal Student Aid (Perot Systems Govt Services)** | Fairfax, VA

*01/2008 – 09/2008*

https://studentaid.gov Responsibilities:

* + Created Workflows that would trigger based out of workflow policies and process the school application information submitted by the School (Partner). The workflow would use Siebel Operation steps and Custom business services which perform the data validation and do the insert/update in Channel Partner.
	+ Worked on the Opportunity Proposal module to dynamically generate Siebel data into word documents. In the process, created the Word templates with Bookmark fields and created the bookmark to field mappings between Opportunity and its child Business Components.
	+ Designed and implemented an UI/interface with IBM’s FileNet which provides the central document storage facility. All the documents like attachments and PPA documents generated from Siebel Proposal module are uploaded to FileNet using a Java based UI that’s exposed in Siebel using Symbolic URL. The documents are shared between Siebel and FileNet using a unique Id(Activity Id). The documents are displayed as links in a separate View, so user can view/download them from Siebel.
	+ Developed an outbound webservice interfacing with EPLS(Excluded Parties List System) (https://[www.epls.gov/](http://www.epls.gov/) ) to run the Debarment for Partner Users(Contacts). In the process consumed the EPLS WSDL and created a workflow. Using the Integration Object imported through the WSDL I performed the UI Data mapping between the Siebel Integration Object and the external Integration Object. After which I call the webservice which posts the XML using HTTP Transport and gets back the response code and message which get updated at the Partner-Contact level.

## CRM Integration Consultant

**Merck Pharmaceuticals** | West Point, PA

*08/2006 – 12/2007*

https://merck.com Responsibilities:

* + Designed and Developed an Inbound interface with Customer Master (Siperian). This process Pub-Sub, where Customer Master publishes and Cornerstone (Siebel) subscribes for information.
	+ This interface uses Tibco Siebel Adapter as the middleware, where Tibco plays a role in modifying and transporting the data in the form of XML. But no business rules are applied in Tibco. The logic is implemented in Siebel.
	+ Designed and developed two interfaces with CIR (Customer Interaction Repository), one inbound and one outbound. The inbound interface is called 'CIR Get' and the outbound 'Cir Add/Update'.
	+ Performed EIM jobs to import and cleanup data. Built the IFBs needed for the EIM jobs. Automated the EIM jobs making it easy for other developers to run it just on a mouse click. Informatica was used to load Siebel EIM tables with Customer Master data from flat files.

## CRM Consultant

**Janssen Pharmaceutical Companies of J&J** | Titusville, NJ

*07/2005 - 07/2006*

https://janssen.com/us Responsibilities:

* + Involved in the Business requirements. Defined the source to target mappings and the business rules.
	+ Developed the workflows and workflow policies required for Outbound Integration, which included build of workflow policy object, columns and programs.
	+ Worked on the server-side tasks required for accepting the Incoming XMLs on to the WebServer from the Webmethods canonical like creating named subsystems and setting the business services to invoke the workflows.
	+ Designed, documented and published Data Mappings based on the business requirements, required columns, User Keys and LOV values using Siebel Tools, EIM tables and Base Tables.
	+ Loaded the data from VPIL tables to EIM Staging tables using customized tool through TOAD.

## CRM Integration Consultant

**One Call Care Medical** | Parsipanny, NJ

*04/2005 – 06/2005*

https://onecallcm.com Responsibilities:

* + Extensively involved in Configuration of Accounts and Contacts Interface elements for the GUI.
	+ Designed workflows in Siebel Tools (New in 7.7) and used vanilla Siebel adapters and custom business services.
	+ Used the Siebel EAI Data Mapper to map Internal and External Integration Objects in Siebel Client.
	+ Designed individual workflows for Contacts like patient, doctor, physician, agent, adjuster and Accounts like payer, employer, and company.
	+ Also created major workflows based on the base tables, which call the above workflows as sub processes.

## Web Developer

**Sify India Pvt. Limited** | Chennai, Tamil Nadu, India

*11/2002 - 11/2004*

https://sifytechnologies.com Responsibilities:

* + Designing and Development of UIs for Sify Channels and for various products offered by the company.
	+ Involved in creating web advertisements like animated banners, text banners, popup advertisements, shoshkeles, insliders and interstitials to increase the Ad revenue by getting more click thrus on the 67 Sify Channels.
	+ Specialized in designing Microsites for clients like Standard Chartered, HDFC, ICICI, Citibank and various other organizations and their products.
	+ Designing the showcasing images and icons on Sify webpages which will lead to other channels.

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