



KARTHIKEYAN MUTHUSAMI



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• Serverless Cloud Environment • Cloud Architecture

SIGNATURE SKILLS

- Architecting and Building Serverless Cloud Environment
- Platform Administration, Monitoring and Automation Process
- Tableau Administration on Both Windows and Linux Platform
- Bigdata Technologies Such As Hadoop and PIG
- Abinitio, Informatica ETL For Various Data Warehouse Applications
- Troubleshooting Source, Target Definitions, Mappings, Transformations & AB Initio Graphs.
- Automation of Various DBA and Admin Activities using UNIX Scripts
- Database Architecture and Performance Tuning
- SQL and Change Management Process
- Fixing Data Issues and Code Changes
- ETL Control – M Automation Tool
- AWS, Hadoop, Vertica, Tableau and platform administration
- Data Warehouse & Cloud Technologies
- Oracle, Teradata, MYSQL and MS SQL database architecture

CERTIFICATIONS

- AWS Certified Data Analytics - Specialty certification
- Certified in HP Vertica Solutions
- Oracle Certified Professional

ACADEMICS

- Master of Computer Applications
- Bachelor of computer Science

PROFILE SUMMARY

Stepping forward with 15+ years of experience, Karthik has refined his skills as a profound Cloud Architect, building scalable architectures, focused on facilitating the conversion of strategies into action by leveraging the appropriate tools and techniques. Responsible for Cloud Platform , Architecture strategy, evangelism, design, development, buildout and growth.

Playing an integral role by actively participating, collaborating, and influencing overall cloud data architecture, Karthik builds highly scalable applications. with deep expertise across a vast portfolio of technologies, including security, unified communications and collaboration, data center, networking, managed services, and cloud solutions, he designs, implements, and supports solutions tailored to meet the unique needs of each customer.

Recognized for delivering technological solutions aligning business strategies while enabling enterprise level efficiency, business growth and operational excellence. Demonstrated mastery in evaluating requirements for business application integration and service activation. A proven expertise in communicating across organizational levels and with cross-functional teams to drive shared vision and foster culture of excellence.

RENDERS VALUE BY

- Leading evaluation and selection of technologies to help build proof of concepts (POCs) to incubate new technologies.
- Ensuring industry, regulatory, and security standards and practices are followed.
- Advising business stakeholders on software design, translating requirements into secure, scalable, and reliable solutions.
- Designing overall solution architecture for apps, data, security, infrastructure, and business continuity.
- Working within the engineering team to realize Enterprise Data Warehouses and Big Data Platform on both Data Center , Cloud .
- Identifying new frameworks, tools, and libraries to benefit the productivity of engineering teams.
- Maintaining a repository of reference architectures that can be used by engineering teams.
- Advocating for architectural best practices and mentor engineering teams in adoption of new practices or solutions.

SOFTWARE & TOOLS

- Since 2017 AWS Analytics Services, Hadoop, Vertica, Tableau, Vormetric, Autosys, Logic Monitor, Corticon, Linux, ServiceNow
- 2015 – 2017 Vertica, Erwin, Python, Informatica, Business Objects, Go Scripts
- 2014 – 2015 HP Vertica, VSQ, Python, Oracle 11g, MySQL, Informatica 9.6, QlikView
- 2010 – 2013 AB Initio, Oracle, Teradata, Unix, Control-m
- 2009 – 2010 Toad, Veritas NetBackup, Humming Bird
- 2007 – 2009 Oracle, Windows 2003 Server, Java

WORK EXPERIENCE

Since 2010

Gainwell Technologies

(Formerly DXC Technologies → Hewlett Packard Globalsoft)



2007 – 2010
Birlasoft

2009 – 2010
Database Administrator

2007 – 2009
Application Support

RECENT ACCOUNTABILITIES SINCE 2015

Role Accountabilities as a Cloud Data Architect

- Defined and led the implementation of a modern cloud data and analytics architecture
- Recommended design choices based on technical standards (platforms, coding standards) by considering business requirements
- Translates an overarching business vision, architecture strategy to enable a broad set of use cases and maximize utility and scale
- Participated and contributed to business use case discussions
- Drove scoping and technical requirements gathering sessions
- Reviewed multiple programming languages, modern integrations, and data transformations
- Managed and contributed to documenting both high-level and detailed specifications for complex architectures and designs
- Advocated and institutionalized a consistent approach to an end-to-end cloud architecture with a variety of well-defined data consumption points
- Collaborated closely with data scientists, educate on architecture intent, and fully support their technical needs for experimentation and access to data
- Incorporated input from many cross-functional teams (data science, business functions, security, product, and PMO)
- Configured AWS services including IAM, Kinesis, Redshift, CloudWatch, EC2, S3, Lambda, Glue, CloudTrail, EMR etc.
- Owned the migration of existing applications and development of new applications using AWS cloud services and designed / deployed Haven platform services in AWS.

Role Accountability as a Big Data & ETL Consultant

- Participates in analysis, design, and ETL development as part of Agile / Scrum Develop Team
- Collaborate with the Business Leads/Product Owners and other development leads to implement technology transformation and AWS Cloud migration plans and executed AWS cloud migrations
- Steered data mapping and data modeling methodologies including normal form, star, and snowflake to reduce data redundancy and improve data integrity
- Held ownership and accountability of technical tasks including estimating, analysis, technical requirements, design, construction, and unit & integration testing following the SDLC
- Maintained knowledge on current and emerging developments/trends for assigned area(s) of responsibility, assesses the impact, and collaborates with Scrum Team and Leadership to incorporate new trends and developments in current and future solutions
- Identified and directed the implementation of process improvements that significantly improve quality across the team, department and/or business unit for his/her assigned area(s) of responsibility
- Provided leadership and direction on complex assignments, projects, and/or initiatives to build and enhance the capability of their assigned area(s) of responsibility
- Served as an escalation point for issue resolution; proactively identified problems and presents/develops solutions inclusive of performance and stress testing with security, migration, and integration
- Involved in database design – reverse engineering of existing Netezza tables into Vertica DDL and collaborated with internal customer teams to define enterprise architecture principles, standards and guidelines
- Evaluated the existing Informatica ETL environment and created the process for manual ETL migration and led the setting up of Vertica database environment and connections to ETL and BO reporting server.
- Co-ordinated with Analytix Mapping Manager team for automatic ETL migration tool.

Details of Projects in the Annexure

PROJECTS ANNEXURE

Since 2007

Gainwell Technologies (Formerly DXC Technologies → Hewlett Packard Globalsoft)

Period: 2017 – 2022
Project: **Haven Healthcare Analytics**
Organization: Gainwell Technologies (Prior DXC Technologies, Hewlett Packard Globalsoft)
Client: State of Ohio (SOH) and State of Tennessee (SOT)
Role: Cloud Data Architect
Software/Tools Used: AWS Analytics services, Hadoop, Vertica, Tableau, Vormetric, Autosys, Logic Monitor, Corticon, Linux, ServiceNow

Period : 2015 – 2017
Project: **AT&T Netezza to Vertica Migration**
Organization: Gainwell Technologies (Prior DXC Technologies, Hewlett Packard Globalsoft)
Client: Telecom, AT&T Inc
Role: Bigdata and ETL Consultant
Software/Tools Used: Vertica, Erwin, Python, Informatica, Business Objects, Go Scripts

Period: 2014 – 2015
Project: **AT&T Optima Pride**
Organization: DXC Technologies
Client: Telecom, AT&T Inc
Role: Database Consultant
Software/Tools Used: HP Vertica, VSQL, Python

Period: 2014 - 2015
Project: **MOHH POC**
Organization: DXC Technologies
Client: Healthcare, MOH Holdings
Role: Vertica and Oracle DBA/Developer
Software/Tools Used: HP Vertica, Oracle 11g, MySQL, Informatica 9.6, Qlikview

Period: 2010 – 2013
Project: **O2 Telefonica**
Organization: DXC Technologies
Client: Telecom, O2 Telefonica
Role: Database Administrator/ Developer/ Operations
Software/Tools Used: Ab Initio, Oracle, Teradata, UNIX, Control-M

Period: 2009 – 2010
Project: **Synapse database**
Organization: Birlasoft
Client: Media, Synapse Inc
Role: Database administrator
Software/Tools Used: Toad, Veritas NetBackup, Humming bird

Period: 2007 – 2009
Project: **Risk Management System**
Organization: Teamlease Services/Birlasoft
Client: Board of Excise and Customs, Government of India
Role: Database Administrator and Application support
Software/Tools Used: Oracle, Windows 2003 server, Java