

CHAKRAVARTHI THANGAVELU

Architect - Technology

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🔗 <https://aidataanalysis.blogspot.com/2020/04/html-awr-report-file-to-excel-file.html>

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EXPERIENCE

Architect - Technology

Virtusa

📅 04/2023 - Present 📍 Bangalore, India

Multinational information technology (IT) services and consulting company

- DevOps/DBRE team member of maintaining 100+ AWS/GCP databases that includes Oracle, PostgreSQL, MSSQL and MySQL
- **Create DBRE culture across business units**
- Develop, deploy and maintain RDS database using IaC, Terraform
- Deploy and integrate subsystems using Codefresh pipelines
- Automated database scheduler for RDS using Python as per enterprise controls defined.
- Defined and designed automation framework for RDS across enterprise
- Designed and build a utility in Python that create Terraform files and take action for all build work and do all GIT operation until Pull Request in GIT repo which **resulted 90% of human resource time and efforts**
- Automated user administration of Oracle, PostgreSQL and MySQL using Terraform, Python and Lambda function using Desired State Configuration tailoring the technology for the banking client eliminate skilled DBA requirement and **increase productivity of ~80% and brings enterprise standard**

Cloud Consultant

HCLTech

📅 11/2021 - 03/2023 📍 Bangalore, India

Multinational information technology (IT) services and consulting company

- Cloud team lead, managing a team of 11 Azure and AWS Cloud Engineers for BAU support
- Continuously establish process and take handover from Projects team to BAU
- Created a process and implemented enterprise level Linux security patching (monthly) using Ansible to manage and administer centrally
- Evaluated to weigh off the best usage of tools Azure Update Management and Ansible created document
- **Assessed Well Architected Framework for AWS workload for DevOps** projects for a UK based energy company
- Designed and implemented Cloud Adoption Framework in AWS platform to start Data Engineering
- workload at enterprise level
- Created multiple process documents and introduced standards for BAU operations
- Create standard operation procedures of L3 activities for all BAU team
- Designed the enterprise network architecture on AWS Cloud platform

SUMMARY

With over 14+ years of experience as a database engineer, infrastructure designer, and architect, I specialize in delivering cloud and data solutions that are scalable, secure, and efficient. I have multiple certifications in AWS, Azure, and Kubernetes, and a strong background in DevOps, DBaaS, and Python.

As an Architect - Technology at Virtusa, I work with diverse clients to design and implement cloud adoption frameworks, data engineering workloads, and enterprise-level security patching. I am passionate about technology, customer-centric, and growth-minded. I enjoy helping people solve problems using technology, and I am always learning to develop new skills.

CERTIFICATION

ITIL Service Operation - The CPD Certification Service

ITIL Foundation

CKA: Certified Kubernetes Administrator

The Linux Foundation - Issued Dec 2022 - Expires Dec 2025

Microsoft Certified: Azure Fundamentals - Microsoft

Microsoft

AWS Certified Solutions Architect - Associate - Amazon Web Services (AWS)

Amazon AWS

The Open Group Certified: TOGAF 9 Foundation - The Open Group

TOGAF

Certified: Terraform Associate (002) - HashiCorp

HashiCorp

EXPERIENCE

Assistant Vice President

HDFC Bank

📅 09/2020 - 11/2021 📍 Bangalore, India

Banking and financial services company

- Lead Data Engineer/Data Architect for Marketing department environment
- Designed/Architected ETL process to fetch ~1TB of data/per day from 6 different data sources using Python+Lookup table in PostgreSQL
- **Architected legacy OLTP PostgreSQL database to OLAP using Greenplum** database for Analytical workload for the team of ~45 Data Scientists
- Identified bugs in enterprise Data Warehouse data load and provided solution to fix it so that all consumers produce same results across enterprise
- **Increased productivity of scorecard execution by ~50% by improving coding efficiency in Python** and database query execution changes
- Implemented operations governance using Azure policies and best practices
- Implemented Partial indexing, python multi-processing, chunks in pandas, COPY command in PG and that **improved efficiency by ~60% from that existent process**
- Redesigned complete ETL using Python and metadata way of fetching data from Data Warehouse to marketing data mark, by removing ~55 independent pythons jobs to ONE job, and it saved 2 data engineers work every month
- Architecting Azure migration project of 40+TB considering customer ~157 PII data with ~100 Mbps bandwidth and file based processing
- Implemented whole new process of validating data from Data warehouse-> Data Marts → Azure Synapse, and it's all done with seamless automation using python and PostgreSQL database

Principal Engineer

T-Systems

📅 07/2020 - 09/2020 📍 Bangalore, India

Internationally operating service provider for information technologies company

- IT was COVID-19 period and my father was attacked by virus and eventually lost him

Principal Database Engineer

Manhattan Associates

📅 11/2017 - 04/2020 📍 Bangalore, India

Software company that specializes in supply chain and omnichannel commerce solutions.

- Designed and maintained Supply chain product deployment framework
- Redesigned and developed in-house Audit tool used by most of Manh clients before deploying Manh product and that was developed using Python, PL/SQL and Bash scripting
- **Developed an in-house Python tool that converts HTML Oracle AWS report into Excel to visualize the tables to help junior DBAs to understand and provide faster performance solutions during Peak-Seasons that increased productivity of ~90% of skilled resource need.**
- Continuously participate in Volumetric Performance Tuning (VPT) process from DB team and provide performance improvement suggestions
- Participate Architect meeting and automate test case and define framework
- **Converted daily test jobs from BASH to Python as part of cultural improvement and it increased the productivity by ~50%**
- Designed and developed new deployment tool for MFA product using Python/BASH script that **resulted in customer experience and brand value**
- Participate critical and performance issues faced by client and provide instant solution in database and application areas Principal Certification Exam Developer

SKILLS

AWS	Automation	Bash
Database	ITIL	Linux
MySQL		
OLAP	OTAP	Oracle
PL/SQL		
Performance Tuning	DevOps	
PostgreSQL	Data Engineering	
Python	Shell Script	SQL
Ansible	Terraform	
Kubernetes & Docker	Azure	

ACHIEVEMENTS



Gold Award - HDFC Bank

'Gold Award' winner in just joining 6 months in HDFC bank for automating and increasing productivity of >= 60% from existing setup



Diamond Award Winner - HCLTech

Diamond award winner among 23 people of DBA team for automating regular DBA tasks like OPatch apply, Reorg of table



Spot Award - Manhattan Associates

Spot Award winner for design and automation of MIF MySQL framework designing the tool in Manhattan Associates



Innovation Sprint Winner of the Year - Virtusa

New RDS database automation using Python script and ServiceNOW integration automation awarded me Innovation Award winner among 11 teams participation

EXPERIENCE

Principal Certification Exam Developer

Oracle

📅 10/2015 - 11/2017 📍 Bangalore, India

Multinational computer technology corporation that provides database software, cloud solutions, and various enterprise software products and services.

- **Redesigned VT suits used for OCM exam that saved 4 resources time (4* 8 = 32 hours) with this automation using BASH, PL/SQL**
 - Participated architect meeting for new projects implementation in Oracle University exams Fixed major bug in the Oracle OCM 12c exam
 - I was one of the OCM 12c exam developer
 - Fixed many bugs in proctor system used for OCM exams
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Technical Specialist

HCLTech

📅 04/2013 - 11/2015 📍 Bangalore, India

Multinational information technology (IT) services and consulting company

- **Semi-automated PSU patch apply using shell script**
 - Online/Offline Reorg of Oracle database table was automated using shell and PLSQL
 - Tablespace Creation script is automated
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Systems Engineer

Tata Consultancy Services

📅 05/2012 - 04/2013 📍 Chennai, India

Tata Consultancy Services (TCS) is a global IT services and consulting company, offering a range of technology and business solutions to clients worldwide.

- Worked as L3 Oracle Database and PLSSQL developer for UK based client IT Consultant Logica
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IT Consultant

Logica (CGI)

📅 09/2008 - 02/2012 📍 Chennai, India

Multinational information technology (IT) services and consulting company

- Started my career as fresher and I was working as L1 Oracle DBA
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EDUCATION

Electrical, Electronics and Communications

Visvesvaraya Technological University

📅 05/2003 - 07/2008