

VIGNESH VENKATAKUMAR

7168081681 | vigneshv007@gmail.com | <https://www.linkedin.com/in/vignesh-venkatakumar/> | <https://vignesh-v-007.github.io/>

PROFESSIONAL SUMMARY

With over 4 years of experience in AWS Cloud Infrastructure, specializing in CI/CD methodologies, and 2 years in managing TrackWise Quality Management System and Crystal Reports, I am a proficient Cloud Data Engineer. My expertise encompasses developing and optimizing scalable cloud solutions and data pipelines, enhancing operational efficiency and data integrity.

SKILLS

- AWS Services: Advanced proficiency in EC2, S3, Lambda, RDS, IAM, Glue, ECS, CloudFormation, and CodePipeline.
- Database Management: Skilled in SQL (PostgreSQL) and NoSQL (DynamoDB).
- Data Engineering: Expert in ETL processes, data pipeline design, and workflow automation leveraging AWS.
- Programming: Proficient in Python, with extensive use of Boto3 and PySpark for data analysis.
- Orchestration Tools: Experienced with AWS Step Functions and Apache Airflow for scalable data flows.
- DevOps Practices: Knowledgeable in Docker, Git, GitHub, Terraform, IaC with AWS CloudFormation for efficient deployment and MLOps to streamline ML model deployment.
- Quality Management and Reporting Tools: Proficient in TrackWise 8.7 and Crystal Reports for quality management and BI reporting.

EXPERIENCE

SENIOR AWS DATA ENGINEER, LatentView Analytics, Chennai, India: September 2022 - December 2022

- Constructed APIs, ETL, and data pipelines for vehicle data analysis, cutting down deployment timelines and streamlined insight generation for a leading car manufacturer.
- Streamlined AWS infrastructure deployment with CI/CD, accelerating data processing and analysis by 40%.
- Boosted Urban Mobility Intelligence with detailed analytics on car usage and infrastructure, utilizing AWS serverless systems for increased efficiency.

CLOUD DATA ENGINEER, Deloitte, Chennai, India: August 2020 - September 2022

- Enhanced AWS data workflows with automatic tagging and auditing, and integrated Service Now for error handling, speeding up incident resolution.
- Designed and executed advanced ETL workflows with AWS, boosting data processing efficiency by 30%.
- Initiated a Proof of Concept AWS Cloud containerization deploying a Flask application in ECS, ensuring secured access to refined S3 content without direct logins.
- Built and maintained CI/CD pipelines for seamless data product deployments, reducing errors and accelerating delivery by 20%.
- Assisted in deploying critical healthcare systems to AWS leveraging CloudFormation and CI/CD pipelines, reducing deployment timescales by 25% and boosting data reliability.
- Collaborated on migrating PubMed and Embase systems to AWS, optimizing ETL processes and reducing maintenance overheads.
- Facilitated the deployment of OHDSI Atlas software on AWS EC2, improving client satisfaction and project innovation.
- Received a Spot award for exceptional performance for contributions to the Vendor Modernization project, achieving a 30% enhancement in operational efficiency.

ASSOCIATE, Cognizant, Chennai, India: January 2019 - July 2020

- Enhanced system alerts and automated log capturing through serverless AWS architecture.
- Streamlined data orchestration and delivery utilizing AWS Step Functions.
- Reduced configuration errors by implementing and maintaining rigorous QA processes using HP Quality Center.

PROGRAMMER ANALYST, Cognizant, Chennai, India: May 2016 - December 2018

- Optimized TrackWise System workflows for major pharmaceutical projects, enhancing process efficiency and system migration outcomes.
- Engineered custom reports with Crystal Reports, advancing project deliverables and heightening client satisfaction through sophisticated reporting solutions.
- Spearheaded documentation, testing, and user access protocols, securing compliance and operational excellence in pharmaceutical company projects.

PERSONAL PROJECTS

Car Rental Management System: Built web app (Flask & SQL) for efficient car rentals (booking, inventory, customer mgmt).

Predictive Analytics for Restaurant Success: Developed Flask app using machine learning to predict restaurant ratings & online ordering success, aiding strategic decisions.

CERTIFICATIONS

AWS Certified DevOps Engineer Professional - 2022.

AWS Certified Solution Architect Associate - 2019.

Cloud Computing Certification from Great Learning - 2019.

EDUCATION

Master of Science: Data Science, University at Buffalo, The State University of New York, May 2024

- Coursework: Numerical Mathematics, Probability Theory, Statistical Learning and Data Mining, Machine Learning, Data Models and Query Language, Python Programming, Data Intensive Computing.

Bachelor of Engineering: Electrical and Electronics, St. Joseph's College of Engg-Chennai, May 2016