

# VIGNESH VENKATAKUMAR

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## SKILLS

- AWS Services: EC2, S3, Lambda, RDS, IAM, Glue, ECS, CloudFormation, CodePipeline, DMS.
  - Database Management: SQL (PostgreSQL, Oracle), NoSQL (DynamoDB).
  - Data Engineering & Orchestration: AWS ETL pipelines, Microservices, Step Functions, Apache Airflow.
  - Programming: Python (Boto3, PySpark, Flask, Pandas, Scikit-learn).
  - DevOps Practices: Docker, GitHub, GitHub Actions, Terraform.
  - Quality Management and Reporting: TrackWise 8.7, Crystal Reports, Tableau.
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## CERTIFICATIONS

AWS Certified DevOps Engineer Professional (2022) | AWS Certified Solution Architect Associate (2019) | Cloud Computing Certification from Great Learning (2019).

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## EXPERIENCE

**Senior AWS Data Engineer, LatentView Analytics, Chennai, India:** Sep 2022 - Dec 2022

- Constructed APIs and ETL pipelines for vehicle data analysis, cutting costs by 20% and enhancing operational efficiency for a leading car manufacturer.
- Streamlined AWS infrastructure deployment with CI/CD, utilizing AWS serverless systems to ensure scalability and cost-effectiveness in data processing by 20%.
- Augmented Urban Mobility Intelligence leveraging AWS serverless for detailed analytics on car usage.

**Cloud Data Engineer, Deloitte, Chennai, India:** Aug 2020 - Sep 2022

- Enhanced AWS data workflows with automatic resource tagging and auditing, integrated ServiceNow for error handling, and accelerated incident resolution.
- Initiated a Proof-of-Concept AWS Cloud containerization deploying a Flask application in ECS, ensuring secured access to refined S3 content without direct logins.
- Assisted in deploying critical healthcare systems to AWS leveraging CloudFormation and CI/CD pipelines, trimming deployment timescales by 25% and boosting data reliability.
- Migrated on-prem PubMed and Embase systems to AWS, optimizing ETL processes using Glue and reducing maintenance overheads.
- Designed advanced workflows for the Vendor modernization orchestrating ETL into PostgreSQL implementing CI/CD pipelines. Amplified efficiency by 30% with historical loads utilizing AWS DMS.
- Deployed various healthcare systems from on-premises Oracle to Aurora PostgreSQL harnessing AWS DMS, improving deployment agility and decreasing operational overhead.

**Associate, Cognizant, Chennai, India:** May 2016 - Jul 2020

- Spearheaded installation and maintenance of TrackWise System in AWS Cloud harnessing EC2, load balancing, and Oracle RDS, ensuring high availability and robust failover strategies.
  - Improved system alerts and automated log capturing with serverless AWS architecture, ensuring seamless monitoring and error resolution.
  - Streamlined pharmaceutical workflows with AWS Step Functions for efficient data orchestration.
  - Managed TrackWise and Crystal Reports, overseeing full lifecycle development, and elevating project deliverables through precise reporting.
  - Spearheaded documentation, testing, and user access protocols, ensuring compliance and reducing configuration errors with rigorous QA processes.
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## PERSONAL PROJECTS

- Car Rentals: Developed a Flask and SQL web app for managing rentals, bookings, and inventory.
  - Restaurant Analytics: Created a machine learning Flask app to predict ratings and online ordering success.
  - Claim Processing: Automated insurance claim submission and processing with a serverless AWS system, including a manual approval step for verification.
  - Cost Prediction: Designed predictive models to estimate medical insurance costs using health data.
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## EDUCATION

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

Coursework: Probability, Statistics, Data Mining, Machine Learning, SQL, Python, Data Intensive Computing.

**Bachelor of Engineering: Electrical and Electronics**, Anna University, Chennai, India May 2016