

Ram Kiran Devireddy

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EDUCATION

Indiana University Bloomington – Master of Science in Data Science

Aug 2022 – May 2024

Advanced Database Technologies, Applied Algorithms, Machine Learning, Statistics, Data Mining Visualization.

EXPERIENCE

Data Engineer (Bloom Insurance Agency – Bloomington, IN, US)

June 2024 – Present

- Reduced manual AWS deployment and resource setup time by 80% through automated AWS provisioning of 23+ AWS resources with **Terraform** + GitHub Actions (**CI/CD**).
- Maintained extensibility of CRUD operations by 80% using OOP principles and data structure algorithms, and controlled resource usage by leveraging **Kubernetes** and **Docker**.
- Designed Redshift data warehouse with a team of 3 and led AWS migration of 6 million call center records of 7+ clients from **SQL Server**
- Implemented AWS **Lambda** and AWS **RDS (PostgreSQL)** based reconciliation and alerting system to track daily data migration from SQL Source to Redshift with 100% accuracy.
- Developed **JSON**-config based Extract Framework in Glue + Step Functions to deliver health insurance data reports to clients via AWS S3, SFTP, and Email (**AWS SES**) during peak Annual Election Period (AEP).
- Achieved 100% secure Terraform state file management with **AWS S3** and **Dynamo DB** locking.
- Accomplished 99% reliable monitoring and alerting system across 200+ AWS resources by contributing to the creation of custom python **CloudWatch** SNS Logger library following design patterns and OOP concepts.

Database Engineer (Bloom Insurance Agency – Bloomington, IN)

May 2023 – Dec 2023

- Optimized legacy **SQL** stored procedures and remodeled 15+ **ETL SSIS** packages, improving query performance and execution efficiency by 30%.
- Built 200+ **SSRS** and **Power BI** reports and engineered 50+ **SSIS** ETL pipelines to facilitate ingestion of daily enrollment data and reports delivery for insurance clients.
- Reduced analytics work by 60% by developing a Python based **JSON** parser to convert JSON data into CSV.
- Saved data team's efforts by 70%, through python scripts to extract yearly plan benefits from MS SQL into Excel.

Software Engineer (Entain India – Hyderabad, India)

June 2020 – July 2022

- Collaborated with a team of 3 in the full Software Development Life Cycle (**SDLC**) of 18 web applications.
- Built 100% secure core back-end features for logins, registrations, and account recovery using **Java** (Spring) for Sporting bets, Casino and Bingo sites across the US, Germany and Portugal countries.
- Developed 50+ **RESTful APIs** for gaming websites like BetMGM for player management, kyc, payments, and responsible gaming features, improving system integration efficiency by 40%.
- Optimized the performance of CRUD operations using Spring Data JPA by 40% using database indexing, materialized views and stored procedures.
- Spearheaded the data migration for 35+ acquired companies with various databases (**MongoDB**, SQL Server, MySQL) into Entain's database system (Oracle SQL).
- Performed Risk data analytics via **BASH** commands for data in Linux OS for 7+ client audits.
- Automated unit tests with JUnit, and conducted TTD, usability testing, QA, code reviews, and quality control, reducing bugs by 80% and improving coding standards by 35%.
- Shortened the white label development time by 90% by creating a console app to automate the workflow

SKILLS

Programming Languages: Python, Java, SQL, T-SQL, PL/SQL, Shell, YAML, C#, C++, HTML, CSS, JavaScript.

Libraries: Spring Boot, Spring MVC, Hibernate, RESTful APIs, JSON, Flask, PySpark, Pandas, SQLAlchemy.

Cloud: AWS (S3, Glue, Lambda, Step Functions, SES, SNS, EventBridge, Secrets Manager, ECS, Fargate, Redshift).

IaC & Data Tools: Terraform, GIT, GitHub Actions (CI/CD), Docker, Kubernetes, Data Grip.

Data Engineering & BI: ETL, AWS Glue Studio, SSIS, SSRS, Power BI, Redgate Toolbelt.

Databases: Microsoft SQL Server, Amazon Redshift, PostgreSQL, MySQL, Oracle SQL, MongoDB, DynamoDB.

PROJECTS

Used Car Central | *Python, Flask, SQL, Google cloud, HTML, CSS, JS* | [GitLink](#)

Apr 2023

- Led a team of 3 in the design and development of web application for the sale of used cars listings.
- Leveraged Python + Flask for backend with **4NF relational** db source to support CRUD operations of 500K+ used car listings and real-time analytics dashboards deployed on GCP.