SUHAS NARAYAN

Business Intelligence Engineer | Analytics Engineering

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LinkedIn · Portfolio

SUMMARY

Business Intelligence Engineer building production data pipelines, reusable data models, and executive reporting for security assurance and compliance. Combines advanced SQL, Python/PySpark, and AWS engineering with stakeholder alignment and data quality controls to deliver measurable improvements in reporting efficiency, operational visibility, and infrastructure costs.

TECHNICAL SKILLS

Languages: SQL, Spark SQL, Python, PySpark, Pandas, R

Data engineering: ETL/ELT, Medallion architecture, Gold-layer modeling, schema validation, data reconciliation, automated quality checks

AWS: Glue, S3, Athena, Redshift Spectrum, QuickSight, CDK, Step Functions, EventBridge, CloudWatch

Engineering practices: Git, CI/CD, Infrastructure as Code, metric design, documentation, user acceptance testing, AI-assisted testing and code review

PROFESSIONAL EXPERIENCE

Amazon Web Services - Seattle, WA

Business Intelligence Engineer, AWS Security | November 2022-Present

- Saved **6 hours per reporting cycle** by automating P0 Monthly Business Review (MBR) metrics used by **L8-L10 executive leadership** to assess organizational business health, integrating audit, time-tracking, and ticketing data into Gold-layer datasets and building reusable PySpark functions for MoM, YTD, trailing-six-month, and percentile reporting.
- Enabled **$250K in annual licensing savings** by ensuring **100% downstream reporting parity across 1,648 audit engagements** during the transition to an in-house audit platform, adapting data models, correcting join logic, coordinating historical backfills, and reconciling all existing QuickSight metrics against legacy outputs.
- Standardized analytics engineering practices across **five engineers** and supported onboarding for **three BIEs** by establishing Medallion Gold-layer modeling, schema and grain validation, testing, and CI/CD review standards; following adoption, the share of code changes approved on the first review increased from **60% to 71%**, while average review revisions fell **9%**.
- Supported a **23-percentage-point increase** in time-reporting participation - from **55% to 78%** - across **127 employees in 17 countries** by building an expected-submitter data model, validating weekly submission rules, and delivering manager accountability dashboards; customer-reported on-time submissions reached **86.7%**, strengthening data reliability for cost and capacity planning.

AMAZON WEB SERVICES | AWS SECURITY (CONTINUED)

- Eliminated approximately **3 hours of manual reporting per week** by consolidating FedRAMP assessment reporting into a daily AWS Glue pipeline and QuickSight dashboard, aligning **10 business metrics and four pipeline stages** with compliance stakeholders and resolving upstream duplicates, inconsistent dates, and missing submission data.
- Established the first automated view of audit-evidence acceptance and rework by investigating **5,352 evidence requests**, partnering with product owners to validate workflow behavior, and modeling feedback histories into reusable classifications; first-pass acceptance among classifiable requests increased from **60% before dashboard launch to 76% afterward**.
- Saved **8 hours of manual work per reporting cycle** by launching the organization's first post-engagement snapshot dashboard with **37 metrics across five categories** and automating retrospective eligibility through cohort analysis, a **P75 total-hours threshold**, and status-history and complexity rules that feed automated notifications.
- Recommended Redshift rightsizing that delivered a confirmed **67% compute-cost reduction - $3,175 monthly, or $38,100 annualized** - by investigating Spectrum-backed storage, QuickSight concurrency, and memory requirements, identifying a smaller cluster configuration suited to the analytical workload.

Best Western Hotels & Resorts - Phoenix, AZ

Senior Data Analyst, Revenue & Analytics | December 2019-November 2022

- Reduced manual market-data processing by **more than 90%** by automating third-party data extraction and loading workflows using Python, Selenium, Amazon S3, and Redshift.
- Enabled scheduled revenue reporting and executive KPI monitoring by migrating Oracle queries and stored procedures to Redshift and developing QuickSight dashboards supported by AWS Glue, Python, and SQL refresh workflows.

Arizona State University - Tempe, AZ

Data Analyst Aide / Graduate Research Assistant | May 2018-July 2019

- Supported operational demand forecasting and anomaly analysis by developing time-series and clustering analyses using Python, R, ARIMA, Holt-Winters, and machine learning methods.

EDUCATION

Master of Science, Industrial Engineering - Statistics & Data Analytics
Arizona State University · May 2019

Bachelor of Engineering, Mechanical Engineering
Visvesvaraya Technological University · June 2017