VISHAL ADHAV

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WORK EXPERIENCE

Binghamton University   August 2023 - Present
Research Data Analyst   *Binghamton, New York*

- Engineered mission-critical **DataStage ETL** pipeline for **healthcare** data processing, unified data from 5 clinical systems into **data warehouse**, reducing analysis time by 70% and enabling strategic research decisions
- Architected comprehensive **data quality** monitoring using **GCP BigQuery** for regulatory compliance, implemented automated validation across StopLoss research data, achieving 99.9% accuracy for FDA reporting
- Streamlined **cross-functiona**l data integration by implementing **Informatica ETL** solution with robust testing, transformed siloed systems into centralized data warehouse, eliminating 15+ hours of manual reconciliation

Diquery Digital Pvt Ltd   July 2021 - June 2023
Software Engineer II   *Mumbai, India*

- Modernized claims processing through **DataStage data warehouse** transformation with **configuration management**, integrated **StopLoss** validation and **strategic planning** for risk analytics, reducing processing from 24 hours to real-time
- Automated enterprise data quality framework using **GCP BigQuery** and **machine learning** for financial compliance, implemented real-time monitoring for insurance **data analytics**, detecting 200+ anomalies monthly
- Re-engineered regulatory reporting system through **change management** and cross-functional data warehouse implementation, coordinated with business analysts and **QA teams** to reduce critical report generation from 3 days to 2 hours

Software Engineer I

- Engineered **DataStage ETL** solution for insurance claims processing pipeline, transformed legacy **financial reporting** system handling 50K+ transactions, reducing processing time from 4 hours to 30 minutes while achieving 99.99% accuracy
- Established enterprise **data warehouse** governance framework for regulatory compliance, implemented standardized documentation and validation protocols, reducing team onboarding time by 60% while ensuring **StopLoss data quality** standards
- Automated comprehensive **ETL** testing framework for critical financial data validation, integrated continuous quality checks for **cross-functional teams**, preventing 95% of production issues and saving 20+ hours in weekly verification

V2STech Solutions pvt ltd   August 2020 - July 2021
Software Engineer   *Mumbai, India*

- Modernized financial analytics through **DataStage ETL** and **GCP data warehouse** migration, integrated real-time monitoring for **insurance risk assessment**, enabling $200K cost optimization through rapid insights
- Developed **BigQuery** monitoring system for customer **data quality** management, implemented automated issue detection across business units, reducing critical response time from 48 hours to 10 minutes
- Re-engineered data reconciliation using **Informatica** for **financial compliance** reporting, streamlined **cross-functional** validation process achieving 99.9% accuracy, eliminating 15+ hours of manual audits

PROJECT EXPERIENCE

Medical Claims Analytics Platform | *GCP, Python, BigQuery*
- Engineered **data warehouse** solution for processing 100TB+ insurance claims data, achieving 99.9% accuracy and 40% cost reduction through custom ETL automation and optimized **GCP** architecture

Insurance Policy Reconciliation System | *Python, DataStage, Informatica*
- Built real-time **ETL** framework handling 1M+ daily banking transactions, reducing data sync delays from 6 hours to 5 minutes while maintaining 99.9% reconciliation accuracy

Healthcare Provider Data Hub | *Python, GCP, BigQuery*
- Developed automated validation system for inventory management **data warehouse**, cutting product data inconsistencies by 85% and eliminating 30+ hours of weekly manual checks

EDUCATION

Binghamton University, State University of New York, School of Computing
Master of Science in Information Systems   December 2025
Cumulative GPA: 3.56/4.00
Relevant Coursework: Web Database & Security, Applied Data Mining, Database System, Tools for Data Science, Software Project Management, Information System Security, Design Pattern

TECHNICAL SKILLS

- **Languages**: Python, JavaScript, Java, SQL, HTML/CSS
- **DevOps & Cloud Technologies:** AWS, Google Cloud Platform(GCP), Docker, Kubernetes, Jenkins,Configuration Management, Git
- **Databases & Data Tools:** PostgreSQL, MongoDB, MySQL, Power BI, Tableau, ETL Pipelines
- **Development Tools & Practices:** Agile/Scrum, JIRA, REST APIs, Microservices Architecture, Strategic Planning, Change Management
- **Data Analysis & Big Data:** Power BI, Tableau, ETL Pipelines, Data Analytics, Machine Learning
- **Certifications:** SAP01 SAP Overview, HTML, CSS, and Javascript for Web Developers, Python Data Structures, Introduction to Big Data, Big Data Modeling and Management Systems, Basic Life Support American Red Cross