Chaitanya Bhargava

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SUMMARY

Data Engineer with 3 years of experience gathering requirements, driving process improvements, and delivering automation in dynamic, cross-functional environments. Advanced proficiency in SQL and Python, with extensive hands-on expertise in data collection, cleaning, validation, and analysis for business intelligence and telecom platforms. Skilled at debugging, troubleshooting, and supporting resilient analytics and reporting solutions for enhanced data integrity and operational efficiency.

EDUCATION

University of Maryland, Robert H. Smith School of Business   **Aug 2024 - Dec 2025**
Master of Science, Information Systems (GPA: 3.94/4.0)   *College Park, MD, USA*
  •Research Assistant: Benchmarking Methods for Al Job Classification

SRM Institute of Science and Technology   **Jul 2017 - Jun 2021**
Bachelor of Technology, Computer Science and Engineering (GPA: 3.6/4.0)   *Chennai, India*
  •Research published in international peer-reviewed journal

WORK EXPERIENCE

University of Maryland | *Information Systems Consultant*   **Feb 2025 - Present**
  • Led a 5-member team to design and automate a student rental platform, modernizing manual workflows for a non-profit organization.
  • Analyzed business processes to design a scalable solution, including data models, capable of processing over 500 applications, significantly improving operational efficiency and supporting organizational growth.

Amdocs | *DWH/BI Developer*   **Jun 2021 - Jul 2024**
  • Developed and optimized near real-time ELT pipelines using Kafka and Snowflake reducing data lag by 90% and enabling actionable insights for data reporters on clickstream, CRM and orders data.
  • Built and enhanced multi-dimensional data models supporting complex migration intiative and ensuring 100% SLA compliance.
  • Authored and maintained technical documentation, developed preventive monitoring/alerting tools, and designed troubleshooting processes to accelerate issue detection and resolution by 90%.
  • Collaborated with cross-functional teams—including engineers, product managers, and analysts—to clarify product goals, document data requirements, and optimize user-facing reporting pipelines.
  • Continuously improved ETL and reporting systems, optimizing for reliability, scalability, and maintainability, and delivering $100,000 in annual operational savings.

CGI Inc. | *Summer Intern*   **Jun 2019 - Jul 2019**
  • Supported internal data management software development with robust testing, validated dataflows for compliance, and ensured risk management standards for sensitive data.

PROJECT EXPERIENCE

PostgreSQL to Snowflake Data Pipeline
  • Developed near real-time data pipelines using Kafka, dbt and Airflow, implemented SCD Type 2 historical tracking along with CI/CD automation supporting bank analytics and regulatory reporting needs.

MongoDB to Snowflake Data Pipeline
  • Designed and executed ETL pipelines to extract and transform complex customer insurance data using Python, Airbyte, dbt, and Snowflake, producing reliable, analysis-ready datasets for business reporting and insights.

TECHNICAL SKILLS

  • **Programming:** Python, SQL, Spark, R, Shell Scripting
  • **BI & Cloud:** Snowflake, AWS (S3, Glue, Redshift), Tableau, Power BI, MS Excel, MS Azure
  • **Databases & Tools:** MySQL, PostgreSQL, MongoDB, Neo4J, Jira, Git, Crontab, Airflow, Data Build Tool (dbt), Kafka
  • **Certifications:** Python for Data Science (IBM), Snowflake Data Warehouse Essentials, Database Management System (NPTEL)

VOLUNTEER EXPERIENCE

Seva Sahyog Foundation   **Feb 2022 - Mar 2023**
  • Raised over $20000 through participation in Amdocs Blossom Marathon as part of a CSR initiative.