Chaitanya Bhargava

(240) 481-9836 | chaitanb@umd.edu | https://www.linkedin.com/in/chaitanyab99/ | Github

SUMMARY

Data Engineer passionate about leveraging analytics and technology to drive product and user experience at scale. 3+ years of experience designing and optimizing robust, scalable data pipelines and models using Python, SQL, Kafka and Snowflake. Proven ability to collaborate with analytics and product teams to drive impactful data solutions and deliver actionable business and user insights.

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 | *Data Engineer* **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.
  • Assisted in building and maintaining multi-dimensional data models as part of migration intitiaive, ensuring 100% SLA compliance.
  • Authored technical documentation and developed monitoring/alerting solutions that accelerated detection of pipeline issues 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.
  • Automated data validation and monitoring tools using Python, accelerating detection of issues by 90% and maintaining a strong focus on resilient data operations.
  • 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**
  • Assisted in testing an in-house data management tool and securing Sensitive Personal Information (SPI), implementing dataflows that ensured 100% compliance with internal data archival and risk management policies.

PROJECT EXPERIENCE

PostgreSQL to Snowflake Data Pipeline
  • Developed near real-time data pipelines using Kafka 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.