

Grace Lewis

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EDUCATION

The University of Utah, Salt Lake City, UT, United States

May 2026

Master of Science, Computer Science

CGPA 3.7

- Coursework: Graduate Algorithms, Visualization for Data Science, Human Computer Interaction, Manage Data for and with Machine Learning, Operating Systems, Visualization for Scientific Data, Computer Architecture, Artificial Intelligence, and Sports Analytics.

University of Mumbai, Mumbai, MH, India

May 2024

Bachelor of Engineering, Computer Engineering (Honors in Data Science)

CGPA 3.8

SKILLS

Languages: Python, SQL, R, C#, C++, JavaScript

Databases & Storage: SQL Server Management Studio, PostgreSQL, Azure Blob Storage

Data Engineering & ETL: SSIS, Apache Spark, Power Automate, ETL pipelining

Visualization & Analytics: Power BI, Tableau, D3.js, Matplotlib, ParaView, Microsoft Excel

Tools & Platforms: Git, Visual Studio, Jupyter Notebook, AWS, Docker

EXPERIENCE

Utah Transit Authority, Salt Lake City, UT, United States

May 2025 - Present

Data Engineer Intern

- Build and maintain SSIS ETL pipelines to integrate, clean, and transform data from Azure, servers, and files into SQL Server.
- Write T-SQL stored procedures and C# scripts to automate workflows and ensure data quality.
- Develop Power BI and SSRS dashboards using DAX to visualize performance and operational insights.
- Automate processes with Python scripts, Power Automate flows, and document models with ERDs.

ITECH Digital Forensics, Mumbai, MH, India

June 2022 - August 2022

Project Engineer Intern

- Migrated legacy website infrastructure to AWS, reducing load time by 15% and improving overall site reliability.
- Developed a responsive e-commerce platform using HTML, CSS, and JavaScript to showcase and streamline access to company products.
- Enhanced front-end performance and cross-browser compatibility, resulting in a smoother and more consistent user experience.

PROJECTS

Lyft Reconnect Data Pipeline, Utah Transit Authority

September 2025 - October 2025

Tools Used: SSIS, SQL Server, C#

- Built a secure ETL pipeline to automate daily Lyft ride data imports using public/private key authentication.
- Designed SSIS workflows with dynamic file handling and C# scripting to parse and validate incoming data.
- Loaded and transformed records in SQL Server for reporting and operational analysis across departments

Integrated Hybrid Cleaning System Using MLNs, University of Utah

January 2025 - April 2025

Tools Used: Python, SQL, PostgreSQL, MLNs

- Developed a hybrid data cleaning system combining rule-based preprocessing with probabilistic inference using MLNs.
- Automated error detection and repair on messy datasets using a Python and SQL pipeline with a PostgreSQL backend.
- Accepted user-defined MLN rules and queries to drive the inference process for data cleaning.
- Evaluated system performance using precision, recall, and F1-score against existing baseline cleaning approaches.

PUBLICATIONS

S. Rebello, S. Sunil, G. Lewis, and S. Shaikh, "FortiShare: A Predictive Cloud File Sharing System for Detecting Intrusions," 2023 6th International Conference on Advances in Science and Technology (ICAST), Mumbai, India, 2023, pp. 405–410.

DOI: [10.1109/ICAST59062.2023.10454961](https://doi.org/10.1109/ICAST59062.2023.10454961)

LEADERSHIP & VOLUNTEERING

- Women in Computing - Graduate Officer | Women's Club Basketball at the U - Member | ESPN College GameDay - Production Volunteer | ACM - Advisor, Secretary & Admin Head | Student Council - Sports Secretary | Student Athlete (U of Mumbai) - Basketball | Teknack - Game Development Mentor | IEEE GRSS - STEM Event Organizer | Girls4Impact - Python Tutor