Odin Lee

CISC DATABASES SUMMER STUDENT WORKER

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Summary

Motivated data science graduate student with a strong foundation in database management, data analysis, and Python programming, seeking to contribute to the redesign of CISC 450. Completed SEIS 630: Database Management Systems & Design with Associate Professor Abe Kazemzadeh, gaining hands-on experience with relational databases, SQL, and system design. With a background in Computer Science and a commitment to learning new tools and technologies, I am eager to support the department's goals through independent, detail-oriented development work.

Education

University of St. Thomas, MS Data Science Saint Paul, MN | 2024 – 2026

- **GPA:** 4.0
- **Relevant Coursework:** Data Management & Design, Python Programming, Cloud Computing, Data Preparation and Analysis

Augsburg University, BS Data Science Minneapolis, MN | 01/20 – 05/24

- **Minor:** Computer Science | **Dean's List:** 7 Semesters
- **Relevant Coursework:** Data Science Foundations, Programming for Data Science, Statistical Modeling, Algorithms, Data Visualization, Data Structures, Python Programming

Skills

Programming Languages: Python | R | SQL | Java
Data Visualization: Tableau | Matplotlib | Seaborn | ggplot2 | plotly
Data Wrangling & Analysis: NumPy | Pandas | tidyr | dplyr | tidyverse
Databases: Oracle SQL Developer | Oracle Data Modeler | SQL (Relational Databases) | Entity-Relationship Diagrams (ERDs)
Tools and Platforms: Git | AWS | Jupyter Notebooks | Canvas (Learning Management System)

Projects

Fantasy Football Analysis Database **09/24 – 01/25**
Technologies Used: SQL | Tableau | R | Docker | tidyr | dplyr | stringr

- Designed and implemented a relational database with **8 tables** using **Oracle SQL Developer** and **Oracle Data Modeler**, cleaning and integrating **85K+ rows** of NFL data from R packages (**nflverse** and **nflfastR**).
- Developed and optimized **20+ SQL queries** to extract key insights, and built **5+ Tableau Dashboards**, facilitating statistical analysis and providing insightful visualization for users.
- Implemented **7 database triggers**, automating calculations and improving data integrity by reducing manual data processing efforts.

Medicaid Churn Analysis – Hennepin County **01/24 – 04/24**
Technologies Used: R | ggplot2 | plotly | dplyr

- Worked collaboratively in a team of three to clean and wrangle a dataset of **350K+ records across 25 variables**, addressing missing values and inconsistencies to help identify trends and patterns for better resource allocation.
- Designed and presented visualizations using **ggplot2** and **plotly** to county officials, providing data-driven insights to help identify trends and patterns for better resource allocation.