

Leon Tan

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Seeking to apply analytical skills in business-facing roles with opportunities to develop stakeholder communication and presentation expertise.

EDUCATION

University of Illinois Urbana-Champaign

Urbana, IL

Master's in Computer Science

Class of 2025

Coursework: Database Systems, Distributed Systems, Applied Machine Learning, Cloud Computing, Data Visualization

University of California, San Diego

San Diego, CA

BS Cognitive Science - Human Computer Interaction(HCI) Concentration, Minor in Computer Science *Class of 2023*

EXPERIENCE

Software Engineering Intern

May 2024 – September 2024

Vitesse Data

Redwood City, CA

- Optimized clients' SQL on data warehouse cluster, improving performance and response for various clients' ETL processes. Helped to reduce 2 hours of daily ETL time for 3 banking clients.
- Identified and resolved more than 50 issues in existing codebase, and incorporated unit tests for those deficiencies.
- Collaborated with cross-functional teams to design and deploy software features aligned with client requirements and project milestones.

Product Management / Product Design Intern

Jan 2023 – April 2023

Kinoyume

San Diego, CA

- Defined product vision and roadmap by gathering requirements from restaurant stakeholders, prioritizing features based on customer insights and business impact.
- Led a team of 3 product designers through iterative design cycles, conducted user testing to validate product decisions, and delivered a final stakeholder presentation showcasing measurable improvements in customer engagement and online conversions.
- Designed and delivered a high-fidelity prototype that enhanced the digital ordering experience, resulting in a 19% increase in customer engagement and a 3% increase in online orders.

PROJECTS

Trend Analysis and Data Quality Pipeline | *OpenRefine, SQL, SQLite, GREL*

- Cleaned 400K+ restaurant menu records using OpenRefine, developing GREL transformations to fix temporal anomalies, price outliers, and integrity violations
- Built SQL validation framework (SQLite) with 15+ integrity checks, ensuring data consistency for decade-by-decade price trend analysis.
- Enabled identification of 3 distinct economic periods through menu price volatility patterns (1850–2020).

Data Interpolation Pipeline Visualizations | *Python, Data Transformation, RBF, Matplotlib*

- Developed mathematical interpolation framework to convert sparse, unstructured field measurements into regular grid data suitable for pattern analysis and decision-making.
- Implemented multiple modeling approaches (6 kernel functions) to represent different physical relationships, enabling selection of optimal representation based on data characteristics.
- Produced contour visualizations that transformed complex electric potential data into interpretable equipotential maps, facilitating identification of field patterns supporting scientific conclusions.

Academic Research Dashboard | *Python, Plotly, MySQL, MongoDB, Neo4j*

- Wrote queries to discover trends in academic research data stored in MySQL, MongoDB, and Neo4j.
- Built customizable dashboards to visualize research trends based on user input.
- Extended these queries into reusable templates with Python/Plotly

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript/TypeScript, React, HTML/CSS

Technologies: Tableau, Pandas, NumPy, Jupyter, MongoDB, Neo4j, AWS, Google Cloud Platform, Hadoop, Apache Spark, Kafka, Docker, Kubernetes

Certificates: Google Advanced Data Analytics, Fundamentals of Computing