

# 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

<b>University of Illinois Urbana-Champaign</b> <i>Master's in Computer Science</i> Coursework: Database Systems, Distributed Systems, Applied Machine Learning, Cloud Computing, Data Visualization	Urbana, IL <i>Class of 2025</i>
<b>University of California, San Diego</b> <i>BS Cognitive Science - Human Computer Interaction(HCI) Concentration, Minor in Computer Science</i>	San Diego, CA <i>Class of 2023</i>

## EXPERIENCE

<b>Software Engineering Intern</b> <i>Vitesse Data</i>	May 2024 – September 2024 <i>Redwood City, CA</i>
<b>Product Management / Product Design Intern</b> <i>Kinoyume</i>	Jan 2023 – April 2023 <i>San Diego, CA</i>
<ul style="list-style-type: none"><li>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.</li><li>Identified and resolved more than 50 issues in existing codebase, and incorporated unit tests for those deficiencies.</li><li>Collaborated with cross-functional teams to design and deploy software features aligned with client requirements and project milestones.</li></ul>	<ul style="list-style-type: none"><li>Defined product vision and roadmap by gathering requirements from restaurant stakeholders, prioritizing features based on customer insights and business impact.</li><li>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.</li><li>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.</li></ul>

## PROJECTS

<b>Trend Analysis and Data Quality Pipeline</b>   <i>OpenRefine, SQL, SQLite, GREL</i>	<ul style="list-style-type: none"><li>Cleaned 400K+ restaurant menu records using OpenRefine, developing GREL transformations to fix temporal anomalies, price outliers, and integrity violations</li><li>Built SQL validation framework (SQLite) with 15+ integrity checks, ensuring data consistency for decade-by-decade price trend analysis.</li><li>Enabled identification of 3 distinct economic periods through menu price volatility patterns (1850–2020).</li></ul>
<b>Data Interpolation Pipeline Visualizations</b>   <i>Python, Data Transformation, RBF, Matplotlib</i>	<ul style="list-style-type: none"><li>Developed mathematical interpolation framework to convert sparse, unstructured field measurements into regular grid data suitable for pattern analysis and decision-making.</li><li>Implemented multiple modeling approaches (6 kernel functions) to represent different physical relationships, enabling selection of optimal representation based on data characteristics.</li><li>Produced contour visualizations that transformed complex electric potential data into interpretable equipotential maps, facilitating identification of field patterns supporting scientific conclusions.</li></ul>
<b>Academic Research Dashboard</b>   <i>Python, Plotly, MySQL, MongoDB, Neo4j</i>	<ul style="list-style-type: none"><li>Wrote queries to discover trends in academic research data stored in MySQL, MongoDB, and Neo4j.</li><li>Built customizable dashboards to visualize research trends based on user input.</li><li>Extended these queries into reusable templates with Python/Plotly</li></ul>

## TECHNICAL SKILLS

<b>Languages:</b> Java, Python, C/C++, SQL, JavaScript/TypeScript, React, HTML/CSS
<b>Technologies:</b> Tableau, Pandas, NumPy, Jupyter, MongoDB, Neo4j, AWS, Google Cloud Platform, Hadoop, Apache Spark, Kafka, Docker, Kubernetes
<b>Certificates:</b> Google Advanced Data Analytics, Fundamentals of Computing