

EDUCATION

<b>Master of Science in Data Science</b> , <i>University of California, San Diego</i> • GPA: 3.7/4.0 • Relevant Coursework: Database Structure, Data Mining, Machine Learning, Deep Learning	<b>Sept 2024 - Jun 2026 (Expected)</b>
<b>Bachelor of Science in Mathematics</b> , <i>University of Wisconsin-Madison</i> • GPA: 3.7/4.0 • Relevant Coursework: Abstract Algebra, Real Analysis, Statistics, Probability Theory, Graph Theory	<b>Sept 2020 - May 2024</b>

SKILLS

<b>Programming</b>	Python (Scikit-Learn, PyTorch, TensorFlow), SQL, R, Linux, Java, OS, MATLAB, $\LaTeX$
<b>Tools &amp; Platform</b>	Tableau, Git, PostgreSQL, MySQL, Neo4j, GCP, AWS, Word, Excel, PowerPoint
<b>Communication</b>	Mandarin (native), English (proficient)

WORK EXPERIENCE

<b>Research Assistant</b> <i>People and Robots Laboratory, University of Wisconsin-Madison</i> • Developed a telepresence robot using Raspberry Pi SDK, ROS, and Python to facilitate remote tours for homebound individuals and people with disabilities • Engineered LLM-based conversational models (GPT-3, GPT-4) through advanced prompt design to ensure responsive and interactive user experiences • Performed A/B testing and ANOVA on interaction log data to analyze user behavior and enhance system performance	<b>Oct 2023 — May 2024</b> <i>Madison, WI</i>
<b>Data Analyst Summer Intern</b> <i>JD.com, Inc.</i> • Extracted, processed, and analyzed over 10M rows of customer data in MySQL, using Python and SQL to identify churn drivers • Designed and executed A/B tests for new app features, leading to a 23.5% increase in UV and a 15% growth in GMV • Automated data pipelines, reducing manual reporting by 40% and improving data accessibility across teams • Built Tableau dashboards to visualize customer trends, enabling data-driven decisions in marketing and sales optimization	<b>June 2023 — July 2023</b> <i>Beijing, China</i>

TECHNICAL EXPERIENCE

<b>Bird Call Recognition using Deep Learning and Acoustic-Based Feature Selection</b> • Extracted and processed 16K+ audio recordings using Python (librosa, Pytorch) to generate structured feature datasets • Analyzed audio feature sets (MFCCs, spectral features, rhythm-based attributes) and converted raw audio to Mel spectrograms • Evaluated the performance of machine learning models (Random Forest, XGBoost, SVM) and deep learning pipelines (CNN, EfficientNet), achieving 89.8% accuracy with Logistic Regression and reducing processing time by 6x	<b>Jan 2025 — Present</b> <i>San Diego, CA</i>
<b>Wildfire Modeling and Tree Species Classification Using Machine Learning Method</b> • Applied models (Random Forest, XGBoost) to predict plant functional type (PFT) and species distribution from Terrestrial Laser Scanning data, achieving a 95%+ accuracy in PFT classification and 85% accuracy in genus/species identification • Built a pipeline to clean, transform, and extract tree data from USDA database, reducing preprocessing time and improving the accuracy of model by 10% • Integrated FastFuels API to produce pseudo label of tree lists from TLS data, enhancing scalability and reducing manual processing effort by 40%	<b>Feb 2025 — Apr 2025</b> <i>San Diego, CA</i>
<b>Movie Recommendation System With Graphic Network Database</b> • Built a graph-based movie recommendation system using Neo4j by transforming 50K+ rows from MovieLens 25M and IMDb datasets, reducing query time from 900ms to 300ms by optimizing relationship traversals • Developed hybrid recommendation models by integrating collaborative filtering (user behavior) and content-based filtering (movie metadata), and visualized user trends and content popularity through Tableau dashboards • Designed Cypher queries to handle complex tasks, such as identifying underrated movies and prioritizing award-winning films (e.g., Oscar-nominated), improving recommendation diversity and personalization	<b>Jan 2025 — Mar 2025</b> <i>San Diego, CA</i>

ACTIVITIES

ProWESS Coding Sprint, 2nd Place, San Diego Supercomputer Center	Winter 2025
ACM Conference on Designing Interactive Systems 2024: Workshop, Participants	Summer 2024
Undergraduate Research and Creative Works Showcase, University of Wisconsin-Madison, Research Presenter	Spring 2024
College of Letters and Science, Department of Mathematics MXM Project Showcase, Research Presenter	Fall 2023