

## Education

**California State University, Northridge**  
*BS in Computer Science, Minor in Data Science*  
◦ GPA: 3.95/4.0

*Sept 2023 – May 2026*

**Moorpark College**  
*Associate of Science for Transfer, Computer Science*  
◦ GPA: 4.0/4.0

*May 2020 – May 2023*

## Research Experience

**Agentic AI Research Intern**  
*Waste Management & Autonomy Research Center For STEAHM*

*Sun Valley, CA*  
*Sept 2025 – Present*

- Leading an undergraduate team in collaboration with a PhD student and a faculty advisor, coordinating research tasks and ensuring alignment with project goals.
- Developing an automated pipeline to transform handwritten reports into Neo4j Cypher code.
- Developing a knowledge base for AI by integrating Cypher queries from a Neo4j graph to make context-aware generations to support downstream digital twin simulations and help Managerial staff with intelligent decision-making.

**Undergraduate Researcher**  
*California State University, Northridge - Department of Computer Science*

*Northridge, CA*  
*Oct 2025 – Present*

- Conducting spatio-temporal analysis of Level 4 Sea Surface Temperature (SST) data from NASA PO.DAAC as part of a NASA JPL-sponsored research project.
- Using EOF/PCA with unsupervised clustering models to identify dominant spatial patterns and group regions with similar SST variability across time.
- Applying spatial autoregression techniques to measure spatial dependence and developing CNN + LSTM models for spatio-temporal feature learning and prediction.

## Honors and Achievements

**Autonomy Research Center For STEAHM Fellowship**  
**California State University, Northridge Dean's List, 5 semesters**  
**Moorpark College Dean's List**

*2025 - 2026*  
*2023 - 2025*  
*2022*

## Personal and Class Projects

**Canadian Climate Time Series Analysis and Clustering**

- Conducted time series analysis on 60 years of climate data from 13 Canadian cities, applying SARIMA models to capture seasonal and trend components for accurate temperature forecasting
- Validated models through residual diagnostics and out-of-sample testing, achieving strong performance in forecasting and warming trend detection

**Predicting Customer Dissatisfaction**

- Built and evaluated classification models (KNN, LDA, QDA, Logistic Regression, Random Forest, XGBoost) on a 76,000-observation Santander dataset with 370 feature.
- Applied dimensionality reduction (PCA) and Random Forest feature selection to reduce high dimensionality, narrowing to 74 key predictors for improved interpretability.
- Tuned and validated models with stratified sampling, regularization, and grid search, achieving a high ROC-AUC score with XGBoost;
- Tools: Python, Jupyter Notebook, Anaconda, NumPy, Pandas, Matplotlib, scikit-learn, XGBoost.

## Technologies

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

**Libraries/framework:** React, Express.js, pydoc, pytest, NumPy, Pandas, Matplotlib, scikit-learn, XGBoost

**Technologies:** AWS (EC2, RDS), DigitalOcean, Node.js, Maven, Docker, Git, GitHub, JIRA, Jupyter Notebook, Anaconda

**Systems** Linux, Windows