

# Michael Nodini

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## Skills

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**Languages:** Python, Java, Javascript, CSS, HTML, SQL, Postgres, MATLAB, R

**Software:** AWS, Cloud Computing, VisualStudio, JupyterHub, Terminal, MS Office Suite, ArcGIS, Docker

**Packages:** Sci-Kit Learn, Pandas, Numpy, Matplotlib, Seaborn, Dask, PyTorch, Apache Spark / Hadoop, StatsModel, SciPy, D3, Plotly

**Technical Skills:** Deep Learning, Machine Learning, Relational Algebra, Graph Theory, Scientific Analysis, Natural Language Processing, Data Visualization, Data Mining, Recommendation Systems, Predictive Modeling, Statistical Modeling, Distributed / Cloud Computing, Dataset Manipulation, Data Preprocessing, Storytelling through Data Visualization, Object Oriented Programming

## Education

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**University of California, San Diego**

Class of 2023

B.S. Data Science: Machine Learning / AI Specialization | Overall GPA: 3.8 | Major GPA: 3.8

**Related Coursework:** Data Management, Data Visualization, Data Analysis & Inference, Theoretical Foundations for Data Science I & II, Data Structures & Algorithms, Data Management, Data Science in Practice, Systems for Scalable Analytics (Cloud Computing), Probabilistic Modeling & Machine Learning, Applied Graph Theory, Computational Methods for Engineering, Data Science in Practice, Deep Learning, Data Science in Biomedicine, Web Mining & Recommender Systems, Explainable Machine Learning

## Experience

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**Independent Researcher, Smarr Lab @ UCSD** | La Jolla, San Diego

June 2022 - Present

Researched individually and collaborated with graduate students to develop algorithms concerning timeseries analysis and forecasting for the Department of Defense. Optimized data loaders and data lake for 20x faster convergence and produced explanatory visuals for investors.

**IT Support, UCSD Extension** | La Jolla, San Diego

December 2020 – Present

Created a class registration pipeline using Google Forms, Python, and Bash scripts. Tasked with data compilation, organization for graduate level courses, survey creation, automated spreadsheet aggregation, LinkedIn management, and projects such as the Clinical Research Symposium.

**Shift Manager, Dairy Queen** | Montvale, New Jersey

September 2017 – August 2020

Managed the shift schedule for 15+ employees, tracked inventory, and upkeep of machinery.

## Extracurriculars / Volunteer

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**UCSD Club Sailing Team**

Member of the UCSD Club sailing team in the Pacific Coast Collegiate Sailing Conference.

**The Himalayan Cataract Project**

Worked in a small team of students to create fundraising events and coordinate with administration to raise \$6,000 for the Himalayan Cataract Project's trip to Ethiopia over the course of five months.

**Interests:** Camping, Snowboarding, Surfing, Cooking, Hiking