Luke Sheldon

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Education

Bachelor of Science - Computer Science, Expected in 05/2026
Minors in Data Science and Actuarial and Financial Mathematics
Clark University - Worcester, MA
Academic Honors - All NEWMAC Academic Team

Relevant Coursework

Algorithms • Data Structures • Discrete Structures • Linear Algebra • Calculus I & II

Skills

- **Languages:** Java, Python | **Technology:** Docker, Git | **ML Frameworks**: Sk-Learn, Tensorflow, Keras
- **Web Development:** Javascript, HTML, CSS, Django | **Databases:** MongoDB, PostgreSQL

Work History

Teacher's Assistant, 01/01/2023 to 05/01/2024 • **Clark University** – Worcester, MA
- Intro to Computing and Algorithms Peer Learning Assistant.
- Provide instructional support to approximately 40 students.
- Collaborate with professors to develop course lesson plans and instructional materials in advance of and during the semester.

Data Annotator, 04/01/2024 to present • **Data Annotation** - Remote
- Work with and label data from different AI models, specifically LLMs, in order to fine tune and improve the quality of these models' generative capabilities.
- Rate responses from AI chatbot models given specific and intentional prompt generation.

Youth Soccer Coach, 05/18/2023 to 08/18/2023 • **Super Soccer Stars**, **Youth Athletes United** - Los Angeles, CA
- Coach and instruct soccer fundamentals to youth athletes ranging from two to five years old during three sessions per day.
- Plan training sessions touching on multiple core sport concepts, including motor skills, active listening, critical thinking, teamwork, sportsmanship, etc.
- Communicate with parents, supervisors/co-workers, and participants in order to ensure optimal training sessions and create a safe, streamlined, and effective learning environment.

Projects

Personal Web App Portfolio | January 2024   HTML, CSS, Javascript
- https://transcendent-nougat-45ce58.netlify.app/

The NEWMAC score Predictor | September - December 2023   Python, Sk-Learn
- Developed machine learning models utilizing historical NEWMAC soccer data.
- Implemented three models—Logistic Regression, Decision Tree, and Random Forest Algorithms.
- Emphasized the importance of continuous testing, refining, and tuning to maintain and improve the predictive quality of each machine learning model over time.

Algorithmic Trading Simulator | March 2024 - June 2024   Python, Django, Docker, HTML, CSS
- Utilized Django to create a robust backend for managing companies, shares, and financial data, supporting operations like portfolio management and stock data retrieval.
- Developed user-friendly forms and search functionalities with Django to allow users to interact with and manipulate stock and portfolio data effectively.
- Created functions for momentum trading (RSI calculation), mean reversion (Z-score calculation), and support and resistance analysis to provide insightful financial metrics.

Stock Sentiment Analysis | July 2024   PyTorch, Keras, BERT, Spacy, Python
- Explored and processed a news dataset using NLP techniques like tokenization, Named Entity Recognition, and stopword removal with the goal of drawing correlation between news headlines and price movement.
- Leveraged BERT for high quality text embeddings that were further processed for use in classification.

Activities

Clark Competitive Computing Club - Vice President

Clark University Varsity Men's Soccer - Forward

Alpine Skiing and Snowboarding Club - Treasurer