

## 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 • Database Management •  
Applied Machine Learning • Assembly Language •  
Multivariate Calculus • Software Development

### Skills

- **Languages:** Python, Java, Kotlin | **ML:** Sk-Learn, Keras, PyTorch, Tensorflow | **Tech:** Docker, Git, AWS
- **Web Development:** HTML, CSS, Django | **Databases:** SQL, Pinecone, Firebase | **Other:** Agile, Waterfall

### Work History

**Teacher's Assistant**, 01/01/2023 to present • **Clark University** – Worcester, MA

- Intro to Computing and Intro to Data Science 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.

**Discover O-Chem Semantic Search Engine** | January 2025

Python, AWS, Hugging Face, Pinecone, PHP

- Developed a semantic search engine for an online organic chemistry textbook, testing the effectiveness of different methods for generating text embeddings such as LLMs, GloVe, and word frequency vectors.
- Leveraged AWS Bedrock for cloud based embedding generation and pipeline deployment.
- Utilized Pinecone's vector database to store and manage text embeddings, enabling fast and accurate similarity searches for user queries.

**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