

# Larsen Weigle

MSCS Student at Stanford University

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## Skills

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Python • Pytorch • Machine Learning • NLP (Natural Language Processing) • Go (Golang) • Github • Git • C++

## Work Experience

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### Machine Learning Engineer Intern

Jan 2023 – present

[Caktus AI](#) • Internship

New York City, NY, United States

**Technologies:** Python • Pytorch • Azure • Python pandas

- Conduct comprehensive audits on cutting-edge machine learning research papers weekly, contributing to the organization's continuous innovation in AI solutions.
- Trained and fine-tuned large language models using advanced methods like RLHF, CoH, LoRA, and quantization, improving model performance and reliability.
- Led evaluation and worked on deployment of endpoints for trained models.
- Served as a founding engineer, contributing to the 50x growth of the user base to reach 2.4 million.
- Developed and implemented innovative features, and constructed efficient workflows with APIs, enhancing user experience.

### Software Engineer Intern

Jun 2022 – Sep 2022 • 3 mos

[Moda AI](#) • Internship

San Francisco, CA, United States

**Technologies:** Python • Pytorch • Go (Golang) • Google Cloud Platform • Docker

- Tailored a series of T5 Text-to-Text Transformer models to generate unique search queries from product descriptions, streamlining the creation of training targets for extensive data sets.
- Crafted packages to scrape stock keeping units and global trade numbers from e-commerce websites, aiding in the development of a novel CLIP embedding model.

### Finance Intern

Jun 2020 – Aug 2020 • 2 mos

[Pantera Capital](#) • Internship

Menlo Park, CA, United States

**Technologies:** Excel • Python

- Supported the finance team in selecting a new Hedge Fund CRM software and surveyed potential second offering firms, enhancing operational efficiency.
- Spearheaded research and conducted interviews of various internet security companies, fortifying organizational cybersecurity against fraudulent profiles and phishing.

## Projects

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### Computer Vision Shark Classifier

Apr 2022 – Jun 2022 • 2 mos

**Technologies:** Python • Pytorch • AWS (Amazon Web Services)

Labeled a data set of drone footage capturing juvenile white sharks in order to apply transfer learning to a pre-trained YOLO V5 model. Executed multiple training jobs on an AWS EC2 instance to allow for rapid model iteration. Experimented with a hyperparameter evolution algorithm to achieve a mAP@0.5 score of 0.978 on the test set. Model is now used at the Stanford Hopkins Marine Station.

Educations

Master's degree: Computer Science

Apr 2023 – Jun 2024 • 1 yr 2 mos

Stanford University  
Palo Alto, CA, United States  
Grade/GPA: 4.0  
Track: Artificial Intelligence Specialization  
Relevant Courses: Advanced Natural Language Understanding, Foundations of Deep Learning

Bachelor's degree: Computer Science

Sep 2019 – Jun 2023 • 3 yrs 9 mos

Stanford University  
Palo Alto, CA, United States  
Grade/GPA: 3.93  
Track: Artificial Intelligence Specialization  
Relevant Courses: Computer Organization and Systems, Principles of Computer Systems, Mathematical Foundations of Computing, Introduction to Probability for Computer Scientists, Design and Analysis of Algorithms, Principles and Techniques of Artificial Intelligence, Deep Learning, Linear Algebra, Multivariable Calculus, Foundations of Computer Vision, Introduction to Natural Language Processing

Certifications & Awards

Microsoft Learn AI Skills - Azure MLOps - Microsoft	Aug 2023
Deep Learning Specialization - DeepLearning.AI	May 2022
Elite 90 Award - National Collegiate Athletic Association	Mar 2021
NCAA Postgraduate Scholarship - National Collegiate Athletic Association	Mar 2023
2019, 2020, 2021, 2022 Outstanding All Academic Award - Association of Collegiate Water Polo Coaches	Dec 2022
Division 1 Men's Water Polo National Champion - National Collegiate Athletic Association	Dec 2019