

Larsen Weigle

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Skills

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

Work Experience

Machine Learning Engineer Intern

Feb 2022 – present

Cactus AI • Internship

New York City, NY, United States

Technologies: Python • Pytorch • Azure • Python pandas

Conduct weekly audits on new machine learning research papers. Train and fine tune open-source large language models using state of the art methods such as RLHF, CoH, LoRA, and quantization (Python).

Evaluate and deploy endpoints for trained models.

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

Fine tuned and modified a series of T5 Text-to-Text Transformer models to produce unique search queries given a product description, which was used to build training targets for large data sets (Python).

Created packages to scrape stock keeping units and global trade numbers from the HTML of a product page for a variety of e-commerce websites (Go).

Finance Intern

Jun 2020 – Aug 2020 • 2 mos

Pantera Capital • Internship

Menlo Park, CA, United States

Technologies: Excel • Python

Reported to the CFO on multiple projects. Assisted the finance team when selecting a new Hedge Fund CRM software and surveyed potential second offering firms. Lead research and interviews of various internet security companies to combat fraudulent profiles and phishing.

Projects

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
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

Sep 2019 – Jun 2023 • 3 yrs 9 mos

Certifications & Awards

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