Larsen Weigle

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EDUCATION

Stanford University — June 2024
Master of Science in Computer Science, Artificial Intelligence Specialization — *Current GPA: 4.0/4.0*

Stanford University — June 2023
Bachelor of Science in Computer Science, Artificial Intelligence Specialization — *GPA: 3.93/4.0*

RELEVANT COURSEWORK

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, Advanced Natural Language Understanding

SKILLS

Languages: Python, SQL, Golang, C/C++, JavaScript, HTML/CSS, LaTeX
Tools: PyTorch, Hugging Face, Git/GitHub, Unix Shell, VS Code, Azure Machine Learning

EXPERIENCE

Caktus AI | Machine Learning Engineer Intern — April 2023 – Present
- Conduct comprehensive audits on cutting-edge machine learning research papers weekly, contributing to the Eguana R&D team
- Trained and fine-tuned large language models using advanced methods like RLHF, DPO, 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

Moda AI | Software Engineer Intern — June 2022 – September 2022
- 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

Pantera Capital | Finance Intern — June 2020 – August 2020
- Spearheaded research and conducted interviews of various internet security companies, culminating in a final report to the CFO and partnership with a cybersecurity firm
- Supported the finance team in selecting a new Hedge Fund CRM software and sourced potential second offering firms

PROJECTS

Computer Vision Shark Classifier | *Python, PyTorch, Amazon Web Services* — June 2022
- 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

AWARDS AND CERTIFICATIONS

Awards: *2019, 2020, 2021, 2022 Outstanding All Academic Award | 2021 National Collegiate Athletic Association Elite 90 Award | 2019 Division 1 Men's Water Polo National Champion*

Certifications: *Azure MLOps - Microsoft Learn AI Skills | Deep Learning Specialization - DeepLearning.AI*

Scholarships: *2023 National Collegiate Athletic Association Postgraduate Scholarship Recipient*