

Max Wolf

maxwolf.ai

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LINKS

Github:// [mwolf2](#)LinkedIn:// [Max Wolf](#)YouTube:// [Max Wolf](#)

EDUCATION

ARIZONA STATE UNIVERSITY BS IN COMPUTER SCIENCE

August 2023 - Present | Tempe, AZ

UDACITY

AI FOR TRADING NANODEGREE

Grad. August 2020 | Online

BASIS ORO VALLEY

Grad. May 2022 | Oro Valley, AZ

COURSEWORK

UNDERGRADUATE

Object-Oriented Programming

Digital Design

Data Science

Economics

UDACITY

Quantitative Trading

AI Algorithms in Trading

Jupyter Notebook, Numpy, and Pandas

SKILLS

PROGRAMMING

Machine Learning:

PyTorch • mmDetection • Keras •

Tensorflow • Scikit-Learn

Over 10,000 lines:

Python

Less than 10,000 lines:

C# • C++ • Java • HTML • Matlab • \LaTeX

Familiar:

Assembly • PHP

ELECTRONICS

PCB Design and Production • Soldering •

Oscilloscopes • Signal Generators

CAD/CAM

KiCad • Autodesk EAGLE • Fusion 360 •

AutoCAD • OpenSCAD

METALWORKING

Manual mills and lathes • 3-axis CNC mills

and routers • Mach 4 machine control

software • Arc, MIG, and TIG welding

EXPERIENCE

RTZ SYSTEMS DATA SCIENCE + MACHINE LEARNING

January 2024 - Present

- Analyzing health data and constructing new patient risk metrics
- Using machine learning to predict patient outcomes
- Building customized agents to accelerate end-user workflow using LangChain and LLMs such as Claude Opus, GPT-4 and Mistral
- Further developing company's software through addition of new features to display, analyze, and visualize data for each patient

REVS INSTITUTE SOFTWARE DEVELOPER

September 2021 – June 2022

- Developed a working prototype of an AI-based system to accelerate library image cataloging using a FasterRCNN model I trained in conjunction with CRAFT and SATRN for scene text detection
- Created data entry and image annotation software - 20x speedup in manual image cataloging throughput over previous methods.

NINEPOINTTWO CAPITAL INTERN

July 2020 – December 2021

- Researched novel trading factors using deep learning and alternative data as well as delivered presentations on them to company executives and customers
- Trained sentiment classification models for use with Twitter and SEC filing data and performed factor refinement using LSTMs

NEWTON CONSULTING AND ENGINEERING SECURITY/IT CONTRACTOR

May 2023 - August 2023 | Tucson, AZ

- Designed and installed a comprehensive, 14-camera wired security system for Tau Kappa Epsilon at the University of Arizona
- Network and access point setup

ALICAT SCIENTIFIC ASSEMBLY TECHNICIAN

June 2023 - August 2023 | Tucson, AZ

- Assembled mass flow and pressure controllers commonly used in aerospace and defense, bioreactors and fermenters, and artificial diamond production
- Gained significant experience in soldering and post-processing of electronics

PROJECTS

FOOTBALL GAME OUTCOME PREDICTION

Used Scikit-Learn and XGBoost to build a model that predicted the outcome of football games in the NFL with more than 72% accuracy, beating many popular sports media outlets by 18% or more.

DATALOGGING ROCKET

A rocket built around an EZ-I65 airframe with a composite motor which generated 73 pounds of thrust. The rocket carried a Raspberry Pi and a custom PCB for instrumentation to an altitude of 1500 feet.

ELECTRIC BIKE CONVERSION

A conversion for a folding bike a classmate and I built for one of my high school teachers. I designed and produced a 3D printed drive pulley with CNC cut aluminum spokes as well as all the electronics.