Max Wolf

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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
AI
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

DOCIPHER Software Developer
September 2024 - Present
- Building backend for software that links patients, doctors, and Google Gemini to decrease turnaround time for rendering patient assistance

RTZ SYSTEMS Software Developer
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

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 artifical diamond production
- Gained significant experience in soldering and post-processing of electronics

PROJECTS

ULLR DRONE DEFENSE SYSTEM
An in-progress project that combines thermal and acoustic cameras to enable detection, targeting, and destruction of kamikaze drones without emitting RF signals that could be detected by a hostile force. 02/2024 - Present

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 76% accuracy.

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.