FEBRUARY 6, 2024

# Experience \_

#### **OSARO**

ENGINEERING MANAGER

- Architected Robotics and Computer Vision software for warehouse automation applications.
- Managed a team of up to eight engineers, aligning product requirements with technical roadmaps using Agile methodology.

eddy. **Rendahl** 

OFTWARE ENGINEER · TEAM LEADER · PHYSICIST 💌 teddy.rendahl@gmail.com | 🎢 www.teddyrendahl.com | 📮 teddyrendahl

Led development of configuration management systems, data pipelines, robotic control and system monitoring software.

#### **OSARO**

SENIOR SOFTWARE ENGINEER

- Optimized Python software, model inference, and path planning to increase robotic picking rate to over 1200 picks per hour.
- · Led a cross-functional scrum team working on robotics and ML model accuracy to improve bin clear rate to upwards of 99%
- Designed APIs in a variety of protocols including HTTP and gRPC to allow customer integrations.

#### **SLAC National Accelerator Laboratory**

SCIENCE AND ENGINEERING ASSOCIATE

- Contributed to the massive distributed software system that allowed for attosecond resolution data collection.
- Developed a Python / Qt UI platform to display real-time system data for critical accelerator operations.
- Modernized the Python ecosystem to improve developer environments, deployment and testing processes.

#### Astrophysics Department at UCSC

UNDERGRADUATE RESEARCHER, ASTROPHYSICS DEPARTMENT

- Developed a Python library that predicted the temporal variance in the spectrum of light emitted by young stellar populations.
- Optimized scientific algorithms to improve cycle time of large scale Astrophysics simulations.
- Contributed to a scientific publication that continued work from my thesis.

### Skills \_

Languages Python, Rust, JavaScript, C++, HTML, SQL Technologies Git, Google Cloud Services, Docker, HTML, Linux, gRPC, HTTP Environments and Domains Distributed Systems, RESTful APIs, Data Pipelines, Microservices, Simulation

## Education \_\_\_\_\_

#### AWARDS

2015 Dean's Undergraduate Research Award, Stochasticity in Nebular Emission Lines.

#### Degree

#### **University of California Santa Cruz**

BACHELOR OF SCIENCE IN APPLIED PHYSICS

• Diverse coursework in Electrical Engineering, Computer Science and Physics

• Dean's Honors (2013, 2014)

## Open Source Projects \_\_\_\_\_

#### ainyt

Automated Solutions to New York Times Puzzles and Games

- Written in Rust, uses browser automation and a variety of algorithms to solve NYT puzzles.
- Solves the Wordle game using Information Theory
- Solves the NYT Mini Crossword using ChatGPT, used as an exploration into Prompt Engineering

#### ugradrs

- A LIGHTWEIGHT AUTOGRAD ENGINE WITH A SMALL NEURAL NETWORK LIBRARY WRITTEN IN RUST
- Intended as a personal exploration of the inner workings of neural networks.
- Allows for the creation of a DAG of scalar value operations with a small Pytorch-like API wrapper.
- · Usage demonstrated on a classification dataset based on scikit-learn's make moons function

San Francisco, CA

### Menlo Park, CA

2015 - 2019

#### San Francisco, CA 2022 - 2023

2019 - 2022

Santa Cruz, CA

UC Santa Cruz

Santa Cruz, CA

Sept 2010 - June 2014

2014 - 2015