JONATHAN WARFIELD MEYER

Github LinkedIn Portfolio j.warfieldmeyer@gmail.com

TECHNICAL SKILLS

Programming Languages:	Python, C, C++, TypeScript
Data Science Frameworks:	PyTorch, SciKit-Learn, onnxruntime
Miscellaneous Proficiency:	data wrangling, supervised learning, Unix, version control, unit testing
Certification:	**SWIFT Yellow Belt, 2023** - Software Craftsmanship, Intel Corporation

WORK EXPERIENCE

Embedded Systems Teacher's Assistant ***April 2023 - Present****, September 2021 - June 2022*
University of California, Riverside — Computer Science & Engineering Dept

- Teacher's Assistant for an upper-division university course of 120-220 students.
- Migrated lab kits from AVR to Arduino, which reduced lab kit costs by 66%, streamlined software setup process, and eliminated the need to configure virtual machines on students' computers.
- Refreshed assignments from term to term, which reduced academic misconduct and ensured students were working on up to date and relevant problems.
- Utilized data engineering techniques managing a gradebook that interfaced with a variety of grading systems: ZyBooks, Gradescope, and Canvas.

Graduate Student Researcher ***January 2023 - March 2023****, Fall 2020 - September 2021*
University of California, Riverside — Computer Science & Engineering Dept

- Integrated state-of-the-art models such as XGBoost, LightGBM for use in an existing SciKit-Learn API compliant predictive modeling pipeline.
- Upgraded a data science pipeline by automating multiple models to train, optimize, and output results of multiple input data sets.

Software Engineer Intern *May 2022 - December 2022*
Intel Corporation — San Diego, California (Remote)

- Collaborated with a small team on training supervised machine learning models for a simulator for a confidential product where my contributions significantly improved accuracy at no cost to speed.
- Enhanced data ingestion process to allow for additional analysis with minimal impact to throughput.
- Followed software engineering principles: testing, version control, object-oriented programming.
- Presented positive results to direct-reports.
- Ensured work was properly transferred to team at the end of the internship.

PROJECTS

T3rra-Viz

- Machine Learning Inference integrated into a Full-stack web application.
- Iris Flower Species classifier using XGBoost, a state of the art machine learning model.
- Cross language machine learning where the Training pipeline is in python, but inferences natively in the client's browser.
- Built on top of create-t3-app and T3 stack(TypeScript, NextJS, TailwindCSS) with onnxruntime integration.

EDUCATION

University of California, Riverside
MS in Computer Science, 3.7 GPA *June 2022*
• Electives: Data Mining, Databases, Software Verification

BS in Computer Science *June 2020*
• Electives: Natural Language Processing, GPU Architecture