JONATHAN WARFIELD MEYER

Github ⸓ LinkedIn ⸓ Portfolio ✉ j.warfieldmeyer@gmail.com

EDUCATION

University of California, Riverside

MS in Computer Science, 3.7 GPA *June 2022*
- Area of elective study: Data Mining, Databases, Software Verification

BS in Computer Science *June 2020*
- Area of elective study: Natural Language Processing, GPU Architecture

WORK EXPERIENCE

Embedded Systems Teacher's Assistant *September 2021 - June 2022, April 2023 - Present*
UCR CSE Department — Riverside, California
- Teacher's Assistant for an upper-division university course of 120-220 students.
- Migrated lab kits from AVR to Arduino, reduced lab kit costs by 66% , streamlined software setup process, eliminated need to configure virtual machines on students' computers.
- Refreshed assignments from term to term, reducing academic misconduct and ensuring students were working on up to date and relevant problems.
- Utilized Data Engineering techniques managing a gradebook that interfaced with a variety of grading systemss such ZyBooks, Gradescope, as Canvas.

Graduate Student Researcher *Fall 2020 - September 2021, January 2023 - March 2023*
UCR CSE Department — Riverside, California
- Integrated state-of-the-art models such as XGBoost, LightGBM for use in an existing SciKit-Learn API compliant predictive modeling pipeline.
- Upgraded Data Science pipeline by automating multiple models to train, optimize, and output results of multiple input datasets.

Graduate Technical Intern Premium (Software Engineering Internship) *May 2022 - December 2022*
Intel — 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, resulting in moving towards productization.
- Ensured work was properly transferred to team at the end of the internship.

PROJECTS

T3rra-Viz
- AI & 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.

TECHNICAL SKILLS

Programming Languages:	Python, C, C++, TypeScript
Data Science Frameworks:	PyTorch, SciKit-Learn, onnxruntime
Miscellaneous Proficiency:	Unix, Version Control, Unit Testing, Data Wrangling, Supervised Learning

CERTIFICATIONS

SWIFT Yellow Belt *February 2023*
Software Craftsmanship - Intel Corporation