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, 3.33 GPA   *June 2020*
- Area of elective study: Natural Language Processing, GPU Architecture

WORK EXPERIENCE

Intel   *May 2022 - December 2022*
Graduate Technical Intern Premium (Software Engineering Internship)
- Created high speed and accurate machine learning performance models for memory subsystem simulators.
- 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 results to direct-reports

UCR CSE Department   *September 2021 - June 2022, January 2023 - Present*
Embedded Systems Teacher's Assistant
- 4 time Teacher's Assistant for an upper-division university course of 120-220 students.
- Migrated lab kits from AVR to Arduino, reducing lab kit cost by 66% and streamlining software setup process.
- Created a process to refresh assignments from term to term.
- Managed underlying gradebook that interfaced with a variety of grading systems - ZyBooks, Gradescope, Canvas

Graduate Research Assistant
- Integrated state-of-the-art models such as XGBoost, LightGBM for use in an existing SciKit-Learn API compliant predictive modeling pipeline
- Enhanced capability by automating multiple models to train, optimize, and output results of multiple input datasets.

PROJECTS

T3rra-Viz
- AI & Machine Learning Inference integrated into a Full-stack web application.
- Iris flower species prediction on an xgboost model trained in Python, inferenced in TypeScript.
- Uses 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