

JONATHAN WARFIELD MEYER

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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: Machine Learning, GPU Architecture, Artificial Intelligence

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 virtual platforms

- Research pending approval for public release

UCR CSE Department

September 2021 - June 2022

Embedded Systems Teacher's Assistant

- Created and updated Lab content utilizing the Arduino Platform

- Facilitated discussion through an online class community by creating bots to improve student experience

PROJECTS

T3rra-Viz

- 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

ORE

- ONNX Runtime Examples - showcases a modular demo of utilizing ONNX Runtime, a cross language machine learning library within a docker container

- Python Training Pipeline, C++ Inferencing

- Inferences the trained model on a single core 300,000 times per second, removing disk bandwidth bottlenecks

GNNVPR

- Created a custom Graph Neural Network combining TAG and SAGE Convolutions for predicting FPGA Routing congestion costs in the open-source Verilog-To-Routing tool.

- Automated data collection & parsing of up to 500GB of graphs, up to 10m nodes & 100m edges

- Creating a Deep Learning model pipeline using PyG, Lightning, and PyTorch

TECHNICAL SKILLS

Programming Languages: Python, C/C++, Typescript

Data Science Frameworks: PyTorch, SciKit-Learn

Miscellaneous Proficiency: Unix, Version Control, Unit Testing

CERTIFICATIONS

SWIFT Yellow Belt

February 2023

Software Craftsmanship - Intel Corporation