

Lucas Saldyt

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Education

Arizona State University

PhD in Computer Science, GPA: 4.0

Arizona State University: Barrett, The Honors College

Bachelor of Science in Computer Science, GPA: 3.71

Tempe, Arizona

Sep. 2021 - Present

Tempe, Arizona

Sep. 2017 - May 2021

Experience

PathAI

ML Engineering Intern

- Deployed cancer diagnosis model in a safe real-world medical device

(Python, Rust, AWS, tensorflow)

Boston, Massachusetts

Jun. 2020 - Aug. 2020

NASA Glenn Research Center

Machine Learning Intern

- Architected a modular data and machine learning pipeline which aggregates and refines image, article, and taxonomy data on 1.9 million living species
- Experimented with EfficientNet CNN to classify species at 82% top-1 accuracy
- Created a custom search engine based on original Google publications

(Python, neo4j)

(pytorch)

Cleveland, Ohio

Jan. 2020 - May 2020

NASA Kennedy Space Center

Software Engineering Intern

- Benchmarked and developed class A, safety-critical, human-rated spaceflight ground control software for the Artemis lunar exploration missions

(C++, Java, Agile)

Cape Canaveral, Florida

Jun. 2019 - Aug. 2019

ASU Complex Systems Research Group

Mathematics Research Assistant

- Analysis and modelling of alarm signal propagation in ants

(Python, R, Diff. Eq.)

Tempe, Arizona

Oct. 2018 - Jun. 2019

Sandia National Laboratories

Quantum Computation Research Intern

- Created distributed high-performance software for benchmarking & characterizing ion-trap quantum computers via gradient-based optimization

(Python, numpy, SLURM)

Albuquerque, New Mexico

Jun. 2016 - Sep. 2018

Publications & Presentations

Curiosity in Path-Planning: Synthesizing Path-Planners for Efficient Exploration

Apr. 15th, 2021

ICRA "Towards Curious Robots" Workshop

Virtual

Meta-Learning for Planning: Automatic Synthesis of Sampling-Based Path Planners

Mar. 26th, 2021

ICLR Learning-to-Learn Workshop

Virtual

Qurry, a Quantum Programming Language

Feb. 2019

FOSDEM Quantum Computing Development Workshop

Brussels, Belgium

Projects

ASU/NASA JPL DORA CubeSat

Ground Software Engineering Student Lead

- Led development of robust ground station software for the DORA satellite, including radio communications, integration testing, and real-time user interface

(Rust, Python, KubOS)

Aug., 2020-May 2020

Tempe, AZ

Skills

Programming Languages: Python, C++, Rust, Java, C, x86_64 Assembly, Clojure (LISPs), Haskell ...

Technologies: pytorch, tensorflow, numpy, pandas, nltk, plotly, seaborn, matplotlib, Django, neo4j, postgres, linux, AWS, s3, kubernetes, Docker, git, Agile, L^AT_EX