Benjamin Danek

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Recent graduate with a broad set of experiences in machine learning, and software engineering. Inspired to benefit humanity by building exceptional software.

SKILLS & INTERESTS

• Technology I Want to Contribute To

Quantum computation.

Distributed, or serverless computation.

Data Science (various areas).

• Tool Set

Typescript, React, Figma, Python, Java, C++, C, Bash, MATLAB, LaTeX

EXPERIENCE

• New Relic Inc.

Full Stack Software Engineering Intern - Phoenix, AZ Solved UI and backend bugs in legacy codebase, implemented novel features on the Synthetics product. **Skills:** React, Angular, Typescript, Java, PostgreSQL *Summer* 2020

• Lam Research Corporation

Hardware Engineering Intern – Fremont, CA
During 2018 Summer made dataset and implemented
Deep Neural Network in component manufacturing
process.

During 2019 Summer designed a system for generating and collecting time series test data for predictive maintenance model.

Skills: Python, Keras, OpenCV, ExpressPCB, Arduino *Summer* 2018, *Summer* 2019

• Arizona State University

Undergraduate Research Assistant — Tempe, AZ Implemented gradient based optimization for generating a whitebox adversarial attack on a simple Deep Q Network RL agent.

Skills: Python, OpenCV, Tensorflow, Academia *Spring, Fall* 2019

Stackend Solutions LLC

Computer Vision Subcontractor — Remote Video analysis for inventory management. **Skills:** Python, OpenCV *Fall* 2019

EDUCATION

• B.S.Computer Science CGPA: 3.65/4.00

Arizona State University 2017-2021

Meaningful Courses

Data Structures and Algorithms
Design Optimization
Autonomous Exploration Systems
Applied Computational Methods
Multimedia Information Systems

Advances in Robot Learning Foundations of Algorithms Semantic Web Mining Quantum Computation

PROJECTS

• FURI Adversarial Attack on RL Agent

Implemented program for generating an adversarial perturbation which could make a simple RL agent perform a desired action within a discrete action space. Research project with Yi Ren at ASU.

http://designinformaticslab.github.io/ Python, Tensorflow, Numpy

• DRIFT: Drone Research Integrated Fuzzing Tool

This project aimed to enable open source development of mission critical robotics software by doing automated bug discovery. Senior Capstone Group Project in partnership with Jnanseshwar Das at ASU.

EXTRACURRICULAR

Arizona State University

Undergraduate TA – Tempe, AZ CSE 240 Introduction to Programming Languages *Spring-Fall 2019*

• Chicanos Por La Causa Volunteer

FLL Coach – Phoenix, AZ Team #46178, Chicabots Fall 2019