Benjamin Danek

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Full stack engineer inspired to benefit humanity by building exceptional software.

SKILLS & INTERESTS

• Technology I Want to Contribute to

Web Interfaces.

Distributed and Serverless computation.

Machine Learning and Optimization Applications.

• Tools & Languages

Typescript, React, Python, Java, C++, C, Bash, Figma. English, Czech, Spanish.

EXPERIENCE

• New Relic Inc.

Full Stack Software Engineer - San Francisco, CA Developed a novel product, Errors Inbox, for consolidating outputs of New Relic's various observability products.

Tools: React, Typescript, Java, Docker, SQL *Summer 2021 - Present*

New Relic Inc.

Full Stack Software Engineering Intern - Phoenix, AZ Solved UI and backend bugs in Synthetics legacy codebase, implemented novel product features.

Tools: React, Angular, Typescript, Java, SQL *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.

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

Arizona State University

Undergraduate Research Assistant – Tempe, AZ Participated in Deep Learning Research group under Dr. Yi Ren. Led the Adversarial Attack on RL Agents project.

Tools: Python, OpenCV, Tensorflow *Spring*, *Fall* 2019

EDUCATION

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

Arizona State University 2017-2021

• Significant Courses

Data Structures and Algorithms
Design Optimization Techniques
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 which leverages gradient based optimization for generating perturbations which can be used by an adversary to control an autonomous reinforcement learning agent.

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.

https://github.com/DREAMS-lab/DRIFT Bash, Travis CI, AWS, AFL

EXTRACURRICULAR

• Chicanos Por La Causa Volunteer

FIRST Lego League Coach — Phoenix, AZ Team #46178, Chicabots. Fall 2019

Arizona State University

Undergraduate TA — Tempe, AZ
CSE 240 Introduction to Programming Languages.

Spring-Fall 2019