

Benjamin Danek

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Software engineer inspired to benefit humanity by building exceptional software.

SKILLS & INTERESTS

- **Technology I Want to Contribute to**
Distributed and Serverless computation.
ML And Optimization Applications.
Web Interfaces.
- **Tools & Languages**
Typescript, React, GraphQL, Python, Java, C++, C.
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, GraphQL
Summer 2021 - Present
- **New Relic Inc.**
Full Stack Software Engineering Intern - Phoenix, AZ
Solved UI and backend bugs in Synthetics legacy code-base, implemented novel product features.
Tools: React, 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://designinformatics-lab.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 Jnanshwar 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