Benjamin Danek

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EXPERIENCE

Software Engineer, San Francisco CA — *New Relic Inc.*

June 2021 - PRESENT

Full Stack individual contributor in Errors Inbox product team. (Java, Typescript, React, Kafka, GraphQL)

Furthered leadership and ability to work through challenges independently with on-call responsibility, and led MMF development.

Software Engineer Intern, Phoenix AZ — *New Relic Inc.*

May 2020 - August 2020

Full Stack intern on the Synthetics product team. (Java, Typescript, React, Docker, Selenium, Bash)

Hardware Engineer Intern, Fremont CA — *Lam Research*

June 2019 - August 2019

Intern in the Deposition product group. (Python, Keras, PCB Design, Arduino)

Designed and implemented a testbed for solving predictive maintenance problems with time series vibrational data and machine learning.

June 2018 - August 2018

Intern in Deposition product group. (Python, Tensorflow, OpenCV3)

Developed dataset and used Deep Computer Vision to solve manufacturing quality control problems.

Undergraduate Research Assistant, Tempe AZ — *ASU*

March 2018 - May 2020 (part-time)

Research assistant in Design Informatics Lab. (Python, Tensorflow, Numpy, SciPy, OpenCV3, Keras, CleverHans)
Deep Learning research on characterizing Adversarial examples in neural network AI vision models and reinforcement learning controllers used in Autonomous Vehicles.

Teaching Assistant , Tempe Arizona — *ASU*

Spring & Fall 2019

CSE 240: Introduction to Programming Languages (C, C++, Racket, Prolog).
Tutored and instructed students on effective use of C, C++, functional, and logic paradigm programming languages.

SKILLS

Java, Typescript, Javascript (ES6), Python, React, GraphQL, Kafka, AWS, Docker, Bash, SQL, Node Object-Oriented Programming, Figma

AWARDS

ASU Academic Achievement Scholar 2017 - 2021 merit-based scholarship.

Fulton Undergraduate Research Initiative Recipient Spring 2019

Fulton Undergraduate Research Initiative Recipient Fall 2020

LANGUAGES

English

Czech

Spanish

VOLUNTEER

Chicanos Por La Causa, Phoenix AZ — *FLL Coach*

Animal Assisted Happiness, Sunnyvale CA — *Farm Hand*

Stackend Solutions LLC, Remote USA — *Computer Vision Specialist*

August 2019 - December 2019 (part-time)

Subcontracted to build computer vision programs for automated inventory management of pharmaceuticals while also balancing full-time student status. (Python, Keras, OpenCV3)

EDUCATION

Arizona State University, Tempe AZ — *B.S. Computer Science*

August 2017- May 2021

Magna Cum Laude Honors, Deans List

3.78/4.00 Computer Science GPA, 3.65/4.00 overall GPA

LEADERSHIP & PROJECTS

Anto — *Stanford University School of Medicine*

Submission to the Stanford Catalyst.

Principal contributor to the technical development and creation of a screening tool that aggregates regulatory environmental data for approximating an individual's pesticide exposure likelihood based on geography.

(Python, Typescript, React, NodeJS, Google Cloud Platform, Postgres)

D.R.I.F.T. — *Capstone Project at Arizona State University*

Integrated tool for automated vulnerability detection on the PX4 open-source flight controller used in robotics drone research. Work done in partnership with Dr. Jnaneshwar Das' Distributed Robotics Exploration And Mapping Systems Lab.

(C++, Python, Javascript, Amazon Web Services, Bash, AFL)

Digital Whiskers — *Engineering Projects in Community Service*

Technical Lead on IoT project aimed at using LIDAR measurement and wearable haptic apparel to provide communicate spacial layout to visually impaired. Work funded by the Engineering Projects in Community Service (EPICS) Gold program.

(C++, Python, LIDAR, Arduino, Soldering)