JOSHUA CARDOSI

Software Developer

OBJECTIVE

Seeking full time internship as a software developer starting Summer 2021. Key skills include Python, JavaScript, MATLAB, HTML, CSS, and machine learning.

PROFILE

Dedicated and independent, I am a lifelong learner and critical thinker. No matter the team's size or level of oversight, I hold myself to a high standard and ensure meaningful results.

CONTACT

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CERTIFICATIONS

Deep Learning Nanodegree

Computer Vision Nanodegree

Applied Plotting, Charting & Data Representation in Python

EDUCATION

Ohio State University | M.S. Mechanical Engineering
Fall 2020 – Fall 2021
Studying applied machine learning with a focus on healthcare. Coursework includes real-time robotics and statistical methods.

Ohio State University | B.S. Mechanical Engineering
Fall 2015 – Spring 2020
Graduated with honors. Designed, built, and tested a prosthetic hand for capstone project. Coursework included numerical methods, linear algebra, and finite element methods.

WORK EXPERIENCE

Nationwide Children's Hospital | Research Intern
June 2020 – Present
- Designed, built, and tested a PyTorch deep neural network that improved patient outcome prediction by 33%
- Reviewed and replicated healthcare literature results to inform decisions on data cleaning and feature engineering
- Coordinated with stakeholders to determine the model's key performance metrics

Honda R&D Americas | Exterior Design Co-Op
May 2018 – August 2019
- Led innovative technology research to reduce unit cost of the vehicle by 10 cents
- Independently designed test fixture and methodology to ensure product met Honda's quality specifications
- Drove development of door mirror, rear windshield, and mudguards, including CAD modeling and manufacturing plans

PROJECTS

ED Adult Mortality Prediction
- Using the NHAMCS data set, recreated state of the art machine learning methods from a General Hospital paper
- Used Pandas and PyTorch to merge tables, clean data, and train and test a deep learning model

Joke Teller Web App
- Created a responsive web app that uses the Voice RSS and Joke APIs to tell the user programming jokes
- Designed interface to allow user to get new jokes on demand and tweet ones they want to share