

# Richard Raithel

## Data Scientist

69 Kings Pond Rd  
East Taunton, Ma 02718  
508.463.7424  
rraithel@gmail.com

### EXPERIENCE

#### **Senior Data Science Engineer**

Nye Lubricants – Fairhaven, Ma

JANUARY 2021 - PRESENT

- Developed a full-stack lab testing data management solution
- Designed and launched a custom computer vision application
- Cleansed data & created dashboards with PowerBI

#### **Application & Test Design Engineer**

Nye Lubricants – Fairhaven, Ma

MAY 2018 - JANUARY 2021

- Developed hardware, electrical & software for test machines
- Designed custom fixturing & software to test customer parts
- Performed testing in the Applications Lab

#### **Mechanical Engineering Intern**

Nye Lubricants – Fairhaven, Ma

MAY 2017 - MAY 2018

- Introduced python as a an open-source software alternative
- Implemented rasp pi's as a low-cost hardware alternative
- Initiated in-house 3D printing capabilities

### PROJECTS

#### **Computer Vision – Instance Segmentation**

- Custom Pytorch ML workflow for multiple lab applications
- Generated synthetic data via pix2px
- See it here: [fuchsvisionapp.azurewebsites.net](https://fuchsvisionapp.azurewebsites.net)

#### **Lab Testing Data Management System**

- Full-stack custom lab testing data management system
- Included azure blob backend, HTML/CSS/Javascript frontend
- Modular in design, created code generators for django files

### SKILLS

Python (Pytorch, Django, Pandas, Plotly)

SQL (MySQL, PostgreSQL)

NoSQL (MongoDB, CosmosDB)

Javascript (jQuery)

HTML./CSS

Microsoft Azure (Blob Storage, App Service, Anomaly Detection)

Microsoft PowerBI

### LINKS

**Portfolio:**

[richard.raithel.github.io](https://richard.raithel.github.io)

**Personal Project:**

[blockchainstats.io](https://blockchainstats.io)

**Github:**

[github.com/richard-raithel](https://github.com/richard-raithel)

**LinkedIn:**

[linkedin.com/richard-raithel](https://linkedin.com/richard-raithel)

### EDUCATION

Umass Dartmouth

**M.S. in Data Science**

JANUARY 2019 - DECEMBER 2020

Umass Dartmouth

**B.S. in Mechanical Engineering**

SEPTEMBER 2015 - MAY 2018