

WORK EXPERIENCE

Data Science Manager, Proofpoint, Durham, NC 2022 - Pres.

- Leading a cross-functional team to create ML features for the cloud DLP product lines. Applying few-shot learning and recommendation algorithms.
- Collaborating with MLOps to architect solutions for model versioning, deployment pipelines, and production monitoring within our ML Platform.
- Revamped the onboarding and interview process, mentored multiple summer interns, and co-organized remote social events for the ML Labs organization.

Senior Data Scientist, Proofpoint, Durham, NC 2021 - 2022

Data Scientist 2019 - 2021

- Created three new ML features to detect threats and ensure compliance on social media platforms. Hit precision requirements > 90%.
- Constructed a system for servicing dozens of spaCy text classifiers, complete with customer-facing documentation and an evaluation dashboard.

Senior Data Scientist, Automated Insights, Durham, NC 2018 - 2019

Data Scientist 2017 - 2018

- Programmed a contextual synonym suggester using custom-trained word vectors.
- Designed and prototyped a dynamic insights recommendation system for BI dashboards in concert with software engineers, designer, and product manager.

EDUCATION

M.S. in Engineering, Duke University 2017

Abdicated PhD Student

Dr. Nimmi Ramanujam (BME): Point-of-Care Optical Cancer Imaging

Dr. Larry Carin (ECE): Deep Learning for Threat Detection in TSA Bag Scans

B.Sc. in Biomedical Engineering, NC State University 2014

Bioinstrumentation Concentration. Minor in Piano Performance.

TEACHING & MENTORSHIP

BME 521 TA, Biomedical Electronics at NC State, Spring 2014

BME 290L TA, Medtech Device Prototyping Skills at Duke, Spring 2016

Duke MIDS Capstone Advisor, Logo Detection at Proofpoint, 2021-2022

High School Tutor, Student U, Durham, NC, 2015 - 2017

FIRST Lego Robotics Coach, Student U, Durham, NC, 2014 - 2015

Summer Academy Science Teacher, Student U, Durham, NC, 2014

Engineering Ambassador, NC State, 2011 - 2013

HONORS

Proofpoint Critical Impact Award (2019), Automated Insights Hackathon 3rd place (2018), NSF GRFP Honorable Mention (2016), James B. Duke Fellowship (2014), NC State Goldwater Nomination (2013), NC State Caldwell Fellow (2010)