Jack McCarthy

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Incoming data scientist at Autodesk.

Experience

DATA SCIENCE INTERN – AUTODESK | SUMMER 2021

- Wrote SQL scripts to compile data from a variety of sources and engineer features
- Constructed a binary classification model to predict cloud contract renewal
- Communicated findings to data science team and project stakeholders

MACHINE LEARNING INTERN – RIVERSIDE RESEARCH | SUMMER 2019 & 2020

- Implemented a variety of statistical analysis and machine learning methods in MATLAB to extract meaningful insights from an environmental time series data set

RESEARCH ASSISTANT – UNIVERSITY OF DAYTON | SUMMER 2018

- Worked with a professor to develop a theoretical queuing model
- Created a queuing simulation in Python to provide an easy-to-use framework for testing reality against theoretical results

Education

DUKE UNIVERSITY– M.S. STATISTICAL SCIENCE | EXPECTED 2022

- Coursework in statistical computing, probability, inference, causal analysis, and experimental design
- Member of winning team for the 2020 Duke Datathon [github.com/jwmccarthy11/Duke_Datathon_2020]

UNIVERSITY OF DAYTON – B.S. COMPUTER SCIENCE | 2017 - 2020

- 3.9 GPA, 3.95 Major GPA
- Lawrence A. Jehn Alumni Award for Excellence in the Senior Class
- Coursework in data structures and algorithms, operating systems, Linux programming, databases, theory of computation, linear algebra, graph theory

Skills

- Python – numpy, pandas, scikit
- Working knowledge of PyTorch, Keras
- Statistical programming in R, MATLAB
- Experience with C, C++
- Statistical modeling and probability
- SQL/Hive