Matthew Holden

DUKE UNIVERSITY | MASTER'S IN DATA SCIENCE

SEEKING: DATA SCIENCE INTERNSHIP SUMMER 2024



CONTACT

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Ourham, North Carolina

EDUCATION

Masters in Data Science

Duke University
Expected Completion: Apr. 2025

Bachelors in Mechanical Engineering

University of Michigan Completed: Apr. 2019

SKILLS

// LANGUAGES

Python, SQL, Rust, Spark, R

// TECH STACK

Azure - Blob Storage, Data Lake, Databricks, App Services

MySQL, SQLite

Automsoft RAPID DB (hierarchal)

GitHub, GitLab, CI/CD Pipelines

JIRA, Smartsheet, Slack, MS Teams

// ADDITIONAL SKILLS

Project Management

Public Speaking / Presenting

Collaborative Teammate

Self-Motivated / Goal Oriented

SUMMARY

Data science master's student with industry experience writing production-level data engineering and data analytics code (Python/SQL). Seeking internship opportunity to deliver optimized solutions using machine learning and statistical modeling. Proven project management skills, backed by a diverse portfolio, capable of collaborating with multidisciplinary groups from IT and software engineers to high level executives.

INDUSTRY EXPERIENCE

SENIOR SCADA SPECIALIST

Baxter Healthcare Inc.

SCADA (Supervisory Control and Data Acquisition)

Round Lake, IL

2022 - 2023

- Designed and built **data pipeline** for high-frequency PLC data transfer between manufacturing equipment and SQL database.
- Designed and built an **anomaly detection** email notification system for critical temperature fluctuations during time-sensitive sterilization process.
- Developed automated KPI visualizations for upper management daily review of plant-wide performance.
- Utilized **RESTful APIs** for historical data extraction to support investigations of equipment failures.

SENIOR PROCESS ENGINEER

Baxter Healthcare Inc.

2021 - 2022

Round Lake, IL

- Led IT and software engineering team through agile development of a maintenance request ticketing system. Maintenance response times improved 62% six-months post-implementation.
- Defined product strategy, managed 500k budget, and presented business incentive to Baxter VPs and CEO.
- Atlassian Jira for daily project management and Gantt charts for executive level timelines.

MASTER'S DEGREE

NFL PLAYER TRACKING WEB APPLICATION (GitHub)

Data Engineering / Cloud Computing Course

- Developed NFL player tracking web application using **Azure SQL Database** and **Azure Databricks** for data processing, and **Docker Hub** and **Azure App Services** for deployment.
- Implemented GitHub CI/CD pipeline for efficient testing, linting, and deployment.

PREDICTING OSCAR NOMINEES (GitHub)

Natural Language Processing Course

- Designed competing predictive **machine learning models** for identifying Oscar nominees from movie reviews. Built **Naive Bayes model** and **Recurrent Neural Network** with Word2Vec embeddings.
- End-to-end execution including project scoping, data sourcing, data preprocessing, iterative model improvement, and final deliverable report.

OPIOID POLICY IMPACT (GitHub)

Applied Data Science Course

- Investigated the effectiveness of legislative policies implemented in Washington, Texas, and Florida to combat abuse of prescription opioids and opioid overdose deaths.
- Processed 100Gb of DEA ARCOS data using python Dask for chunking and wrote logistic and linear regression models for diff-in-diff analyses with python SciKit-Learn.