

Dyllan Usher

Software Developer



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Lincoln NE



/in/dyllan-usher/



Dyllanjrusher

A hard-working team player that desires to make meaningful local impact expedited by data-driven decisions. In my free time, I like to garden, do yoga, and play guitar.

Skills

LANGUAGES / FRAMEWORKS

JavaScript

React

Typescript

Node

HTML

Python

SQL

Vue

CSS

AWS - CLOUD COMPUTING

Lambda

Elastic Container Registry

Cognito

Alexa

RDS

MICROSOFT AZURE - CLOUD COMPUTING

Functions

App Service

MySQL

DevOps

Virtual Machines

MACHINE LEARNING

Regression

Classification

Feature Engineering

Dimensionality Reduction

Natural Language Processing

Topological Data Analysis

DATA VISUALIZATION

Seaborn

Plotly

Tableau

Excel

PowerBi

Matplotlib

Education

Metis Data Science Bootcamp

June 2020 to Sept. 2020

The core curriculum is centered around Python, statistics, supervised and unsupervised machine learning, exploratory data analysis, databases, and visualization techniques.

University of Nebraska-Lincoln

2016 to 2020

B.S. Mathematics

Experience

NLB Services

Business Analyst | Software Developer

Remote
Dec. 2020 to Current

- Currently working with Synchrony Bank developing an Alexa App to make and cancel payments.
- Leading a refactoring effort for ClearedTalent.com.
- Fixed UI bugs and implemented admin UI for ClearedTalent.com.
- Submitted a response to an RFP for the City of Atlanta central IT infrastructure upgrades.
- Wrote automated python scripts connected to excel to free up an additional 10 hours per week for the business analytics team.
- Maintained data consistency as database admin for ClearedTalent.com during feature implementations and adjustments to the backend.
- Created a POC for a ticketing system for NLB's HR & IT team.

Freelance Work

Data Engineer | Cloud Architect

Remote
July 2021 to Current

- Set up the backend to monitor distributor inventory & online retail for Omaha based custom motorcycle shop, Spaz Cycle LLC
- Currently creating Vue.js dashboard for Spaz Cycle LLC
- Created an architecture proposal for a chat-bot linked to the Tik-Tok API

The Oven

Server

Lincoln, NE
Nov. 2019 to Mar. 2020

- Worked quickly in a high stress environment while maintaining a high standard of customer service and professionalism.

The Clemente Soybean Lab

Lab Technician

Lincoln, NE
2016 to 2018

- Expanded and improved GMO seed database and documentation.
- Created a standardized way for uniform data entry.
- Executed experiments while optimizing workflow.

UNL Math Department

Teacher's Assistant

Lincoln, NE
2018 to 2019

- Tutored a group of students on mathematical concepts.
- Created a fun and inclusive learning environment for non-mathematical majors.
- Cooperated with professors to provide a pointed learning environment.
- Implemented new practices to communicate abstract ideas to non-technical audiences.

Open Harvest

Grocer

Lincoln, NE
Feb. 2019 to Nov. 2019

- Maintained inventory on the floor & assisted customers whenever possible in a friendly manner.
- For me, Open Harvest was an extremely influential job experience. I fell in love with Lincoln, the community, small businesses, and locally sourced sustainable food systems via this store and the people I met therein.

Projects

Unsupervised Climate Analysis of Nigeria

- Centered on deciding which regions to allocate resources for a smallholder farm aid group in Nigeria.
- Analyzed temperature and precipitation on the ERA5 reanalysis dataset at .5-degree spatial resolution.
- Used K Means Clustering over space and time, Xarray to handle geospatial dataset with metadata, and Dask for parallelized computing.
- Created 3 priority regions in Nigeria for the aid group.

Predicting Median College Income

- Centered on predicting median student income 10 years after receiving a Bachelors.
- Data was web scraped from NCES College Navigator using Selenium.
- Utilized Lasso Regularization, followed by the Lasso Path Algorithm to dive further into analyzing correlated features.
- The median ACT score and total endowment of a university are positively correlated with a high income later in students' lives.

Predicting Solar Irradiance

Jan. 2021 to Mar. 2021

- Predicted localized next-day solar irradiance levels.
- Data was obtained using OpenWeatherMap and SolCast APIs

Volunteering

UNL Student Organic Farm · Vegetable Farmer
Lincoln, NE

May 2018 to Current

At the UNL Student Organic Farm, I've worked under the guidance of the farm manager helping to maintain a little over 1/4 acre of vegetables. The organization sold 30 CSA shares this year.

At the end of August 2021, the farm manager and I broke ground on a new 3/8 acre plot 15 minutes outside Lincoln.