

# Dyllan Usher

## Software Developer



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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

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

June 2020 to Sept. 2020

### University of Nebraska-Lincoln

B.S. Mathematics

2016 to 2020

## 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

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

Jan. 2021 to Mar. 2021

## 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.