

CHRISTIAN NORMAND

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PROFILE

I am a strategic problem solver who uses data science to tackle complex challenges. While working at a clean tech startup, I leveraged skills in data engineering, project management, and experimental design to help develop state-of-the-art wastewater treatment technology. As a motivated and curious relationship builder, I want to help mission-driven companies understand the context of a problem through data and collaboration to produce meaningful and actionable solutions.

SKILLS

Coding: Python, Azure SQL, Azure Functions, Excel VBA, Flask **Machine Learning:** Scikit Learn, TensorFlow, Natural Language Processing (NLP), Image Processing, Feature Engineering, Principal Component Analysis (PCA) **Data Visualization:** Matplotlib, Plotly, PowerBI

EXPERIENCE

DATA SCIENCE IMMERSIVE

GENERAL ASSEMBLY

Madison, Wisconsin

Jun 2021 – Sep 2021

- Wrote Python scripts for ETL operations which pulled data from websites, APIs, and other sources and stored it in a ready-to-use format within SQL databases.
- Demonstrated proficiency in SQL, Python, and Excel by completing 480 hours of coursework, over 20 lab assignments, and six projects using various statistical methods and machine learning techniques.
- Applied classical machine learning (linear regression, decision trees, etc.), and deep learning (feed-forward and convolutional neural networks) to problems such as natural language processing (NLP), computer vision, and time series analysis with ARIMA modeling.
- Worked on a cross-functional team of UX designers, software engineers, and data scientists to design and build a web app for refugee resettlement in the United States.

LABORATORY ANALYST

NUTRIENT RECOVERY AND UPCYCLING

Madison, Wisconsin

May 2017 – Jun 2019

- Designed database schema and built infrastructure to consolidate thousands of laboratory results into a unified format, enabling research teams to conduct analysis.
- Developed a real-time dashboard for a wastewater treatment process using Power BI, Azure SQL, Azure Functions, and Python.
- Analyzed data using Python and Pandas to trace phosphorus, calcium, and other elements through a complex treatment process.
- Created reports, presentations, and data visualizations using matplotlib and plotly.

INTERFACE ENGINEER

EPIC

Madison, Wisconsin

Jul 2016 – Feb 2017

- Worked on data pipelines to facilitate the transfer of information between medical systems.
- Provided technical support to users of Epic's electronic health record software including on the ground support during product go-lives.
- Designed a programing utility to help with routine backend administration tasks.
- Worked across teams to solve complex problems in the hospital setting.

EDUCATION

DATA SCIENCE IMMERSIVE

GENERAL ASSEMBLY

Madison, Wisconsin

Jun 2021 – Sep 2021

B.S. MECHANICAL ENGINEERING

ARIZONA STATE UNIVERSITY

Tempe, Arizona

Aug 2012 – May 2016