

# 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 start-up, 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 in order to produce meaningful and actionable solutions.

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## SKILLS

**Coding:** Python, SQL, Pandas, NumPy, SciPy, ScikitLearn, Flask **Machine Learning:** Regression, Classification, Natural Language Processing (NLP), Image Processing, Feature Engineering, Principal Component Analysis (PCA) **Data Visualization:** Matplotlib, Plotly, PowerBI

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## EXPERIENCE

### DATA SCIENCE IMMERSIVE

GENERAL ASSEMBLY

Madison, Wisconsin

Jun 2021 – Sep 2021

- Implemented active learning strategies to efficiently train a convolutional neural net for multiclass image classification
- Worked with a team of data scientists using NLP techniques and an XGBoost model to identify signs of harassment in online comments
- Developed binary classification models using logistic regression, random forest, and support vector classification, to classify reddit posts into their corresponding subreddits
- Used Python and Pandas to analyze data from the California Department of Education and form insights about diversity at the state's universities

### LABORATORY ANALYST

NUTRIENT RECOVERY AND UPCYCLING

Madison, Wisconsin

May 2017 – Jun 2019

- Used Python and Pandas to analyze data from wastewater treatment systems
- Developed a real-time process monitoring system with Azure SQL and PowerBI
- Managed laboratory operations during a nine-month pilot project. Designed and executed experiments, collected samples, helped operate an industrial wastewater treatment process.
- Authored reports and presentations, and created data visualizations for external publications

### INTERFACE ENGINEER

EPIC

Madison, Wisconsin

Jul 2016 – Feb 2017

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

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## 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