

# CHRISTIAN NORMAND

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## PROFILE

I am an engineer with a passion for building flexible, scalable, and maintainable data products. Through five years of experience as a data practitioner in digital marketing, consumer IoT, and healthcare analytics, I have encountered technical challenges that have pushed me to learn and adapt to deliver high quality solutions. As a motivated and curious relationship builder, I want to help mission-driven companies harness the power of data to drive action and create exceptional experiences for their users.

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## SKILLS

### CODING

### DATA ENGINEERING

### ANALYTICS

### DEVOPS

Python, SQL, C++, Bash

Spark, Databricks, Redshift, PostgreSQL, Dagster, dbt

Pandas, Scikit-Learn, Tableau, Power BI, Plotly

Docker, Terraform, CloudFormation, GitHub Actions, Git

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## WORK EXPERIENCE

### ANALYTICS CONSULTANT

UW HEALTH

Madison, Wisconsin

Feb 2023 – Present

- Collaborated with clinical stakeholders to understand and translate their needs into technical requirements for dashboards, reports, and other analytics solutions.
- Demonstrated comfort working with complex data models using SQL, Python, and Pandas to perform analysis for clinical end users.
- Taught Git workflows and best practices to a team of 10+ analysts with varying levels of experience with source code management.
- Assisted with converting 20 years-worth of queries from Oracle SQL to Microsoft SQL Server employing Python and SQL Fluff to automate aspects of the process.

### DATA ENGINEERING CONSULTANT

SELF-EMPLOYED

Madison, Wisconsin

Aug 2022 – Present

- Modeled data for a smart thermostat platform, simplifying analysis of slowly changing relational data and high-volume time series data from over 50,000 connected devices.
- Developed a batch pipeline with Python, Docker, and AWS Elastic Container Service to extract data from a third-party REST API and land it in an S3 data lake.
- Used CloudFormation with automation tools like Troposphere and Runway to deploy networking, compute, and storage infrastructure on AWS.
- Implemented a client VPN endpoint with private DNS to provide developers simple, secure access to cloud resources.
- Performed ad hoc data analysis with Python and Pandas, making sense of incredibly messy datasets to uncover adverse patterns in equipment usage and sensor readings.

### ASSOCIATE DATA ENGINEER

MISSIONWIRED

Madison, Wisconsin

Apr 2022 – Feb 2023

- Built and supported pipelines and developed REST API clients to ingest data from 50+ CRMs and advertising platforms into a data warehouse running on Databricks / Delta Lake.
- Created some of the company's first dbt models to transform multi-terabyte datasets for use in machine learning applications.
- Used Terraform to deploy and manage cloud infrastructure on AWS and Databricks.
- Identified areas where the code base did not conform to best practices and worked to fix bugs and refactor the code to be more secure and maintainable.
- Worked cross-functionally with data scientists and analysts to scope and implement new features for MissionWired's core fundraising platform.

## **INSTRUCTIONAL ASSOCIATE / TEACHING ASSISTANT**

GENERAL ASSEMBLY

Madison, Wisconsin

Sep 2021 – Apr 2022

- Assisted with teaching a three-month course on Python, SQL, and Tableau to approximately 20 analysts from a large global consulting firm.
- Provided individualized instruction and encouragement to students during weekly office hours.
- Graded assignments and projects, providing in depth feedback on areas where students excelled, as well as where they could improve.
- Helped 100% of students earn a certificate from the course by listening to their feedback and adapting my teaching style to meet their needs.

## **CREW MEMBER**

TRADER JOE'S

Madison, Wisconsin

Feb 2017 – Dec 2021

- Served as the section leader for multiple high-volume departments, ensuring that sufficient product quantities were ordered and merchandised to optimize sales.
- Trained and coached to new employees and, at times, served as floor manager for the entire store, coordinating operations of all departments for the shift duration.
- Researched, prepared a proposal, and pitched an opportunity to the Director of IT for integrating machine learning into the company's product operations.

## **LABORATORY ANALYST (ACTUALLY A DATA ENGINEER IN DISGUISE)**

NUTRIENT RECOVERY AND UPCYCLING

Madison, Wisconsin

May 2017 – Jun 2019

- Used Python to clean and consolidate thousands of results from four laboratories to support the development of state-of-the-art wastewater treatment technology.
- Developed a pipeline on Microsoft Azure to stream operational data from a pilot scale wastewater treatment system into a SQL Server database.
- Improved process visibility by displaying operational data in real time with Power BI and implementing SMS notifications to alert team members of equipment entering an alarm state.
- Facilitated sample processing by designing experiments, collecting samples, and performing field tests to determine the chemical properties of wastewater material.

## **DATA INTEGRATION ENGINEER**

EPIC

Madison, Wisconsin

Jul 2016 – Feb 2017

- Provided remote and in-person technical assistance to hospitals migrating data from legacy systems into Epic's electronic health record software.
- Supported a data integration layer to ingest real time critical patient data from outside systems.
- Worked with clinical end users to understand workflows and troubleshoot data issues.

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## **VOLUNTEER EXPERIENCE**

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### **MENTOR – DATA SCIENCE & ENGINEERING**

GENERAL ASSEMBLY

Madison, Wisconsin

Apr 2022 - Present

- Provide weekly guidance on data cleaning, modeling, and infrastructure deployment to teams of recent graduates from General Assembly's Data Science Immersive program as they compete in a month-long hackathon.

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## **EDUCATION**

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### **CERTIFICATE – PYTHON FOR PRODUCTION**

### **CERTIFICATE – DATA ENGINEERING WITH DAGSTER**

### **CERTIFICATE – ANALYTICS ENGINEERING WITH DBT**

CO:RISE

Madison, Wisconsin

Nov 2022 - Dec 2022

### **CERTIFICATE - DATA SCIENCE IMMERSIVE**

GENERAL ASSEMBLY

Madison, Wisconsin

Jun 2021 – Sep 2021

### **B.S. MECHANICAL ENGINEERING**

ARIZONA STATE UNIVERSITY

Tempe, Arizona

Aug 2012 – May 2016