

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.

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

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.

VOLUNTEER EXPERIENCE

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.

EDUCATION

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