

# Andrew Crawford

## Data Engineer

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## Summary

Azure Data Engineer with 2+ years of experience designing semantic models, building end-to-end data pipelines, and delivering analytics solutions that scale. Adept at turning raw operational data into governed, reusable datasets and business-friendly Power BI/Fabric models that power self-service BI and advanced analytics. Proven record of collaborating with cross-functional teams, optimizing SQL & Python code, and automating data operations in regulated environments (finance & manufacturing).

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## Core Strengths

**Azure & Microsoft Fabric:** OneLake, Dataflow Gen2, Pipelines, LakeHouses, Synapse SQL & Spark, Power BI

**Semantic Model Design:** Star & snowflake schema, dimensional modeling, DAX measures, row-level security

**Data Engineering:** ETL/ELT in Python & SQL, Dataflow Gen2, Power Automate, CI/CD with GitHub Actions

**Programming & Databases:** Python, SQL (T-SQL, PL/SQL), Oracle, Teradata, PostgreSQL, MSSQL

**DevOps & Cloud Ops:** Docker, Git, Agile/Scrum

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## Experience

### *Risk Analytics Consultant II*

Wells Fargo - Minneapolis, MN (06/2024 - 01/2024)

- Developed Python scripts to validate language in legal governing documents against internal accounting data
- Wrote SQL queries to extract datasets for business partners and create recurring reports
- Utilized Power Automate to build forms for streamlining daily data collection tasks

### *Data Engineer*

Neurocraft - Remote part-time (04/2024 - 01/2025)

- Developed a form application using Azure Static Sites to collect daily machinist log data
- Created a PowerBI dashboard to visualize the daily machinist log data
- Built a comprehensive dashboard leveraging Azure services, including Microsoft Fabric, OneLake, and PowerBI
- Implemented data tracking for machine operations, capturing key metrics such as production output by operator, setup and machining time, machine downtime
- Created a digital system for generating wear and tear reports during tool disassembly, with automated report generation and maintenance recommendations

### *Teaching Assistant - Columbia Engineering AI Boot Camp*

2U, Inc. - Remote part-time (03/2024 - 01/2025)

- Provided instruction in programming for artificial intelligence covering Python programming, machine learning, deep learning with TensorFlow and Keras, and ethical AI practices to equip students with critical AI development skills
- Designed interactive learning experiences and assessments focused on data modeling, natural language processing, and emerging AI technologies, fostering innovation and critical thinking in AI applications
- Assist students in building weekly mini projects and larger group projects throughout the bootcamp, guiding them to apply prediction techniques, machine learning models, and data analysis skills.

### *Senior Analytics Consultant*

Wells Fargo - Minneapolis, MN (02/2023 - 01/2024)

- Created a development cycle guide leveraging GitHub for effective code development and release management
- Developed a Python common code framework to simplify database connections to Oracle and Teradata systems, evolving the SAS legacy code
- Built a monthly dashboard connecting SQL databases to PowerBI to display enterprise customer risk ratings by location

#### *Associate Software Engineer*

Revature - Remote (10/2022 - 12/2022)

- Created an eCommerce website with React, Spring, and PostgreSQL where customers can register, log in, filter products by sales, search for products, and add products to a cart/checkout
- Architected and implemented a Java/Javalin-based Web API for submitting, viewing, and managing employee reimbursements

#### *Teaching Assistant - University of Minnesota Fintech Boot Camp*

2U, Inc. - Remote (09/2022 - 03/2023)

- Provided instruction in programming for financial technology covering Python programming, machine learning, algorithmic trading, and smart contracts on the Ethereum blockchain with Solidity
- Assisted students in configuration, troubleshooting, and building projects for their portfolios
- Taught data cleaning, data manipulation, analysis, and communication of results to non-technical audiences

#### *Capital Markets Analyst I*

Wells Fargo - Minneapolis, MN (01/2019 - 03/2021)

- Managed incoming margin calls for derivative trading, handling 25+ systems/software daily, and solving client problems
- Designed and generated Tableau reports to measure monthly personal and team metrics
- Implemented a pod structure to silo tasks into specific roles, enhancing efficiency, and tracked performance metrics
- Created training guides introducing new VBA, decision trees, flow charts, and step-by-step instructions

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## **Education**

Bachelor of Arts, Economics - 3.41

University of Minnesota Twin Cities - Minneapolis, MN (09/2014 - 05/2018)

Fintech Certificate

University of Minnesota - Remote (09/2021 - 03/2022)