

# Josiah Schulz

DATA SCIENTIST

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[github.com/CannedKilroy](https://github.com/CannedKilroy)

## PROFILE

Coming from a strong educational background in the analytical process, I knew I wanted to pursue a career in data science. I'm an enthusiastic self-starter, tackling personal projects that allow me to build and learn new tools to extract better data insights.

## SKILLS

SQL, Python, R,  
Parametric and non-parametric tests,  
A/B tests, Hypothesis Testing,  
Tableau, Plotly, Streamlit, Matplotlib,  
Bokeh, Seaborn, Tensorflow, Keras,  
Pytorch, AWS, Hadoop, Spark, Hive,  
Supervised and Unsupervised  
Learning, Docker, Excel, Git

## LANGUAGES

English, German

## EDUCATION

**BrainStation | Diploma, Data Science**

TORONTO, ON

**University of Alberta | B.S. Specialization in Math and Finance**

EDMONTON, AB

- Completed 30 credits in the relevant courses of Probability & Statistics, Linear Algebra, Economics, and Calculus.

## PROJECTS

**Self-directed Project | [Cryptocurrency Data Pipeline](#)**

JUL 2023

- Engineered an asynchronous Python-based data pipeline for real-time cryptocurrency futures using SQLAlchemy and MySQL, eliminating dependency on data providers for backtesting.

**Self-directed Project | [Loan Status Prediction](#)**

SEP 2023

- Developed models in python for forecasting loan defaults using machine learning achieving 87% precision, and built an [interactive app](#).

**Self-directed Financial Trading Project | [Slippage Reduction](#)**

APR 2024

- Exploring how ML can be utilized to reduce trade slippage in cryptocurrency futures markets. This project includes aligning multiple out-of-core time series using Dask and Polars then forecasting liquidity. (In Progress)

## EXPERIENCE

**Computer Numerical Control Operator | WF Steel and Crane**

SEP 2021 - AUG 2022, EDMONTON, AB

- Used Raptor CAD/CAM software in the programming and operation of CNC machines for structural steel manufacturing.
- Demonstrated leadership by managing a small team of 2 and orchestrated training sessions to onboard new team members.

**Hackathon | BrainStation**

TORONTO, ON