

# Richie Frost

Software Engineer and Data Scientist at Microsoft

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## EXPERIENCE

### Microsoft, Redmond, WA— *Software Engineer*

JANUARY 2019 - PRESENT

- Generated robust machine learning models for detecting financial fraud, revealing millions of dollars' worth of recoverable funds.
- Created end-to-end machine learning pipelines for production, reducing the time to audit prediction from one month to 30 minutes.

### University of Utah, Salt Lake City, UT— *Graduate Research Assistant*

SEPTEMBER 2016 - DECEMBER 2018

- Published a paper and open-source demo on a no-code Data Science as a Service (DSaaS) system at a top-tier data conference (ICDE) in 2019.
- Published a paper (with demo) on spatial-temporal sentiment analysis at a top-tier data conference (KDD) in 2017.

### Microsoft, Redmond, WA — *Software Engineer Intern*

MAY 2018 - AUGUST 2018

- Harnessed machine learning to build an information retrieval system that extracts key skills from job descriptions with a 97% F1 score.
- Developed the infrastructure necessary for a customer-facing job and candidate recommendation system for Dynamics 365.

## EDUCATION

### University of Utah, Salt Lake City, UT— *MS Computing*

SEPTEMBER 2017 - DECEMBER 2018

Graduate project on a configuration-as-code Data Science as a Service system, open sourced at [github.com/InitialDLab/AIPro](https://github.com/InitialDLab/AIPro).

### University of Utah, Salt Lake City, UT — *BS Computer Science*

JANUARY 2015 - AUGUST 2017

Undergraduate thesis on a scalable distributed topic modeling algorithm that achieved a 94% decrease in memory consumption.

## SKILLS

Information Retrieval  
Machine Learning  
Natural Language Processing  
Data Engineering  
Data Analysis  
Software Engineering

## AWARDS

**General Category - 1st Place**  
Won the largest hackathon in Utah for an app that translates books and leverages the community

**Undergraduate Dean's List**  
For high academic achievement.

## LANGUAGES/STACK

Python, Pandas, NumPy,  
Scikit-Learn, Databricks,  
Jupyter, NLTK