

# Chris Lundberg

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## Data Science Skills

**Communication:** data analysis reports, dashboard design, interactive applications, presentations

**Data Wrangling:** data acquisition (database, API, web scraping), cleaning, and transformation

**Statistics:** EDA, time series analysis, machine learning (classification, regression, unsupervised learning)

**Programming Languages:** R (tidyverse, tidymodels, keras), Python (numpy, pandas, scikit-learn), SQL, Java, C

**Tools:** Linux, Git, Apache Airflow, Elasticsearch, Shiny

## Experience

### Charles Schwab Investment Management

Lone Tree, Colorado

QUANTITATIVE RESEARCH ANALYST

2021-Present

- implement changepoint detection models to generate automated alerts for ETFs that exhibit changes in bid/ask spreads
- apply dimensionality reduction and clustering techniques to investment manager holdings and risk data to generate data-driven peer groups
- partner with product and engineering teams to develop new ETFs and multi-asset strategies
- collaborate with data scientists and quantitative analysts across the firm to evaluate new data sets and technology

### Segall Bryant & Hamill

Denver, Colorado

QUANTITATIVE RESEARCH ANALYST

2018-2021

- empowered investment teams across public and private markets with data and insights to improve investment decision making
- built equity risk and alpha models, managed data acquisition and processing, and designed dashboards and interactive applications
- conducted research and due diligence on hedge fund, private equity, and venture capital investment managers

### Tennant Company

Denver, Colorado

TECHNICAL SALES SPECIALIST

2016-2018

- developed diagnostic tools that improved service response times for a fleet of IoT devices

### Schlumberger

Denver, Colorado

TECHNICAL SALES ENGINEER

2014-2016

- worked with a cross functional team to develop new solutions from prototype to launch

## Education

### Georgia Institute of Technology

Atlanta, Georgia

MASTER OF SCIENCE - COMPUTER SCIENCE

Anticipated May 2023

- relevant coursework: Artificial Intelligence, Reinforcement Learning, Network Science, Deep Learning

### MSU Denver

Denver, Colorado

BACHELOR OF ARTS - MATHEMATICS/STATISTICS

June 2018

- relevant coursework: Probability Theory, Statistical Theory, Regression and Computational Statistics

### University of Denver

Denver, Colorado

MASTER OF MUSIC - PERCUSSION

June 2013

- relevant coursework: Introduction to Graduate Studies, Entrepreneurial Opportunity and Feasibility

### University of Denver

Denver, Colorado

BACHELOR OF MUSIC - PERCUSSION

June 2011

- relevant coursework: General Psychology, Classics in Ethics, Physics I

## Professional Development

**Professional Designations:** CFA charterholder

**Certifications:** AWS Certified Cloud Practitioner

**Volunteering:** Rockies Venture Club, Rocky Mountain Microfinance Institute, Reading Partners