

Charles Threlkeld

Résumé

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Work Experience

Oct 2010 - Apr 2017

Risk Analyst

Rosenthal Collins Group, LLC

- **Data Scraping:** Located, downloaded, cleaned, and processed raw data into useable formats for broker, client, and personal use.
- **Exploratory Data Analysis:** Applied statistical techniques to datasets to find correlations or anomalies.
- **Analysis Reporting:** Compiled findings of data analysis into essays, charts, and graphs in order to disseminate the findings to coworkers and clients in an easily interpretable way.

May 2009 - December 2009

Research Assistant

Indiana University College of Optometry

- **Retinal Measurement:** Processed raw photographic data into comparable, normalized, tidy datasets for comparison.
- **Code Machinery:** Rebuilt software to operate optic imaging machinery in order to repurpose the machinery for new uses.
- **Data Verification:** Cleaned and confirmed data gathered from the research lab before it went to data analysts.

Education

2017-Present	Certifications Computer Science <i>Open Source Society</i>
2011–2012	Non-degree seeking Life Sciences <i>Roosevelt University</i>
2007–2010	B.A., B.S Philosophy, Economics, Mathematics <i>Indiana University</i>
2005–2007	No degree awarded Software Engineering <i>Rose-Hulman Institute of Technology</i>

Computer Skills

Basic Knowledge	HTML, CSS, Javascript
Intermediate Knowledge	Linux, Microsoft Windows, Ruby, ML, Clojure, Racket, git, SQL, \LaTeX
Advanced Knowledge	Python, Data Science, R

Projects

- **Options Market Analysis:** Pulls market settlement data from the Chicago Mercantile exchange. Tidies the data into useable, machine-parseable formats. Calculates derivative value with respect to underlying markets and analyzes the deviations from normal market conditions.
- **Ironman™ Finisher Analysis:** Scrapes the Ironman™ website for finisher information in a series of races. Tidies the data, then analyzes to compare the relative difficulties of the races under study.
- **Ironman™ Heat Analysis:** Builds on the information in the Ironman™ Finisher Analysis by cross-referencing the historical weather data for the locations of the races. Then allows race-difficulty weighting by daily weather.
- **John Company:** Model the board game *John Company* (forthcoming by *Sierra Madre Games*) in order to help the designer and developer more fully understand how changes to the random event probabilities affect the game state throughout the game.