# Clayton C. VonDras

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### **SYNOPSIS**

Data scientist with 2+ years of experience creating statistical learning programs and data analyses in Python, R, and Node.js. Fascinated by systems and driven to create, I relish the opportunity to forge a rewarding career in an environment of professional excellence which allows me to utilize my passions for applied mathematics, statistics, economics, computer science, and problem solving.

# COMPETENCIES

#### Skills

- Programming experience in Python, R, Node.js, Julia, Ruby, FORTRAN, SQL, MQL, Cypher, Excel, LATEX, HTML5, CSS3,
- · Technical experience in statistical learning, predictive modeling, and natural language processing
- Detail-oriented, creative, quick learner, highly analytical, precise, motivated.

• Google Partner status: Analytics, Search, Display, Video, Fundamentals

# PROFESSIONAL EXPERIENCE

**Data Scientist** Saint Louis, MO Coolfire Studios March 2014 — June 2016

- Developed the data science program for the Digital Engagement division
- · Created scripts to rapidly collect social data from YouTube, Facebook, AdWords, and Twitter APIs, at-scale
- Visualized data and relationships with ggplot2 and d3. js
- Created a classifier to predict the demographics and interests of a YouTube channel's audience based on subscriptions, likes, and comments
- Used natural language processing techniques to analyze the sentiment of and extract keywords from YouTube and Facebook
- Implemented a video tagging scheme to better use video retention time-series data to inform content decisions
- Created a program to quickly generate audits of business verticals on YouTube using rmarkdown and knitr
- Reverse-engineered server calls to extract historical data from YouTube videos
- Combined SSA baby name data with actuarial life tables to predict the age and gender of email list members from their first
- · Segmented Facebook audiences with graph clustering algorithms to analyze audience evolution through time
- Predicted future fluctuations in ad market prices with multivariate models to choose best time to launch campaigns
- Used linear models to estimate e-commerce revenue from social data

# **EDUCATION**

## Indiana University, Bloomington, IN

Mathematics, B.A.

Aug 2008 — Dec 2013

# Coursework

- Multivariable Vector Calculus, Linear Algebra, Probability Theory, Numerical Analysis, Real Analysis, Classical Mechanics.
- Econometrics, Financial Economics, Economics of Money and Banking, Financial Accounting, Options Pricing Theory.

# COMMUNITY SERVICE & LEADERSHIP

#### **Projects and Events Director**

Bloomington, IN

Student Sustainability Council

May 2012 — Dec 2012

- Responsible for the planning and execution of SustainIU Week 2013 and all Council-sponsored projects and events
- Managed allocation and coordination of a \$12,000 Green Initiative Grant

#### Member-at-Large Volunteers in Sustainability

Bloomington, IN

· Advised members of the executive committee and fulfilled the duties of Coordinator in their absence

May 2011 — May 2012

Coordinator Volunteers in Sustainability

Bloomington, IN May 2010 — May 2011

· Directed meetings and serve as chief executive of ViS

# Vice President of Membership

 $A\Phi\Omega$  Service Fraternity

Bloomington, IN May 2010 — May 2011

· Planned requisite social events, managed appointed officers and status of 100 active members

# **HONORS & AWARDS**

#### Distinguished Service Key Award