8049 South Drive
Saint Louis, MO 63117

Clayton C. VonDras

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SYNOPSIS

Data scientist with 2+ years of experience creating statistical learning programs and data analyses utilizing 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, Unix shell, Git
- Technical experience in statistical learning, predictive modeling, natural language processing
- Detail-oriented, creative, quick learner, highly analytical, precise, motivated

Certifications
- Google Partner status: Analytics, Search, Display, Video, Fundamentals

PROFESSIONAL EXPERIENCE

Data Scientist — Saint Louis, MO
Coolfire Studios — March 2014 — June 2016
- Established 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 comments
- 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 name
- 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 — Bloomington, IN
Volunteers in Sustainability — May 2011 — May 2012
- Advised members of the executive committee and fulfilled the duties of Coordinator in their absence

Coordinator — Bloomington, IN
Volunteers in Sustainability — May 2010 — May 2011
- Directed meetings and serve as chief executive of ViS

Vice President of Membership — Bloomington, IN
AΦΩ Service Fraternity — May 2010 — May 2011
- Planned requisite social events, managed appointed officers and status of 100 active members

HONORS & AWARDS

Distinguished Service Key Award
AΦΩ Service Fraternity – for outstanding service to Chapter and Community — Dec 2012