R. King | Resume

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Education

University of California, Davis   **Davis, CA**
B.S., Psychology
Emphasis in developmental and biological psychology

University of California, Davis   **Davis, CA**
Minor, Statistics
Emphasis in statistical computing

Experience

R. King Data Consulting   **Davis, CA**
Proprietor   *Jul. 2018–Present*
Sole proprietor providing services in data analysis, data science, and data systems, targeting NGOs, non-profits, researchers, and early stage startups. Built custom solutions for clients that increase access to quality information, modernize data collection and analysis infrastructure, and produce concrete organizational gains.

Education Analytics   **Remote employee for Non-profit based in Madison, WI**
Data Operations and Technology Strategist   *Nov. 2016–Jul. 2018*
Technical support and advocate for the Analyst Team as EA grows as an organization and individual projects become more diverse in their technological requisites. Manage and guide the computation and data science infrastructure: R, RStudio, Python, Linux servers, and all database development. Directly support projects with more complex technical needs: design and implement meachine learning models, design and build high availability computational databases and data warehouses, write python and R packages to ease access of internal data stores, guide pipeline and process development in complex projects

Value Added Research Center   **University of Wisconsin, Madison Education Research Center**
Programmer Analyst   *Apr. 2015–Nov. 2016*
Implement complex statistical models with SAS and R, perform research on predicting models for student behaviors and abilities, proposed and implemented unsupervised learning methods for tracking complex student trajectories.

UC Davis Agricultural Innovation Project   **Remote**
Software Developer   *Oct. 2014–Dec. 2016*
Proposed, designed, and built Agroft: an open source statistics web application to help agriculture researchers in Pakistan analyze data from field trials and learn R. Written in R.

UC Davis MIND Institute   **Sacramento, CA**
Clinical Data Manager and Analyst   *2010–Mar. 2015*
Design and Maintain relational SQL database of medical data, construct complex datasets for collaborative projects, generate automated data reports with R and LaTeX, write scoring programs in MySQL stored procedure language, lead research projects as diverse as outlier detection in high dimensional data, enhanced matched sample techniques for small samples, and discovering psychophysiciolgical (eye-traction, vocalization patterns) markers in autism.

Relevant Coursework

o **Machine Learning**

linear algebra, and machine learning methods. This course was heavy in R programming and focused on practical use of Machine Learning–taught by Duncan Temple-Lang, one of the core authors of R

o **Mathematical Statistics**

Probability theory, Bayes theorem, continuous and discrete probability models, PDFs, limit theorems, asymptotic theory, multivariate calculus

o **Statistics in psychological research**

Focused on research methods in psychology and statistical methods commonly used in behavioral research. Used R for all analyses

o **Research Methnods**

Research ethics, common experimental designs used in research

Volunteer Work

University of Wisconsin Phylogenetics Computing Lab: I worked to translate algorithms for analyzing phylogenetic networks from R into Julia.

Injustice Boycott Analytics Lead: Led the Analytics team of the Injustice Boycott in an attempt to increase effectiveness of outreach campaigns.

Hobbies

Social Media Web-scraping and Analysis: I scrape data from social media sites using web crawlers and APIs, and look for trends in the data using regression, machine learning, natural language processing, data visualization, and more. I write up my results on a blog.

Tech Blog: I maintain several blogs covering interesting problems that can be solved with modern data analysis methods

The Splodeyheads: I play drums in a jazz and blues band called "The Splodeyheads"

Interests

Technical
- Interactive Data Visualization
- Web Scraping
- Exploratory Data Analysis/Data Mining and Feature Extraction
- Database Normalization
- Extract-Transform-Load workflows
- Open Source Software and Community
- Distributed Computing/Parallel Processing

Non-technical
- Social and Economic Justice
- Effective Communication of Technical Ideas
- Open Access to Information

Relevant Skills

- R and Python programming
- Data analysis, statistics, research methods
- Production machine learning pipelines
- Linux server management and shell scripting
- PostgreSQL, MySQL, Relational Database Management, SQL Procedural Languages
- LaTeX, Markdown, and automated reporting methods
- git, github, and version control
- SAS code and macro language