resume\_19@gmail.com  
816.554.2470  
Christopher Fusting Data Science Consultant  
Burlington VT - Email me on Indeed: indeed.com/r/Christopher-Fusting/99e69d05f35c7ad2  
Chris Fusting is a quantitative researcher interested in modeling environmental and social systems. He has experience working on a diverse set of projects including: developing an SDK for wireless sensor network nodes in Java quantifying carbon sequestration in the Panamanian jungle and predicting corn soy and wheat crop yields around the globe.  
Willing to relocate: Anywhere  
Authorized to work in the US for any employer  
WORK EXPERIENCE  
Data Science Consultant  
Aquent - July 2015 to August 2015  
Accomplishments  
 Translated a desire for more effective recruitment and greater fill rate of orders into a quantitative data driven solution.  
 Found latent skill-clusters describing data driven market segments using natural language processing techniques and Latent Dirichlet Allocation.  
 Worked with the CTO to identify high value use of the research and passed the methodology and findings off to an internal team.  
Java Web Applications Developer  
Aquent - Internal - Asheville NC - September 2011 to December 2014  
Accomplishments  
 Developed a successful candidate suggestion web application feature that matches job seekers with employers.  
 Prototyped a talent similarity index.  
 Helped migrate legacy application framework to the Spring framework.  
 Brought to the team a big data and analysis perspective to help drive the development of intelligent software to make our business more efficient.  
Developer / Analyst  
Resource Data Inc (RDI) - Asheville NC - October 2008 to September 2011  
Accomplishments:  
 Developed a data repository and analysis system housing well over 4 billion climatic observations capable of quickly analyzing large regions of the world  
 Implemented a variant of Canonical Component Analysis (Shen et al 2002) in R to model annual crop yield  
 Optimized crop yield regression models  
 Researched the implementation of NDVI in crop yield prediction models  
 Developed models in use by RenRe the USDA and the World Bank  
Remote Sensing Analyst  
Short term Contracts - 2008 to 2011 Conservation Strategy Fund  
   
\_ Assessment of land use change in the Exuma Cays Island Chain from 1980 - 2010 using Landsat TM data.  
 US Forest Service  
\_ Mapping the Roan Mountain balds shrubs lines and canopy lines using LiDAR data  
 The National Modeling and Analysis Center (NEMAC)  
\_ Mapping impervious surface change in Buncombe county NC over time using Landsat TM data. Resource Data Inc.  
\_ Mapping the Bent Creek canopy using LiDAR data.  
 Warren Wilson College  
\_ Mapping the French Broad River District (Asheville NC) using LiDAR data.  
Developer / Analyst  
Resource Data Inc (RDI) - December 2009 to April 2010  
Accomplishments:  
 Quantified carbon content of a large watershed in Panama using Landsat 5 TM satellite imagery and field data gathered from forest plots I helped construct  
 Programmed and deployed wireless sensors to gather field data in the rainforest.  
 Provided carbon sequestration data to CREA capable of making the argument that the rainforest should be protected for monetary reasons  
Paid Intern - Developer  
Sun Microsystems Inc - Menlo Park CA - June 2008 to October 2008 http://blogs.oracle.com/cfusting/  
Accomplishments:  
 Researched the efficacy of the Sun SPOT as a ecological tool capable of teaching scientists more about the natural environment and provide conservationists with a valuable tool to detect micro-climates and  
habitats available to endangered species and therefore argue for an area's conservation.  
 Collaborated on the development of a Software Development Kit (SDK) specializing in interfacing the  
Sun SPOT with different sensors logging their data and sending it to a database.  
 Developed solar energy sources rainforest-proof enclosures and other retrofits to the Sun SPOT and deployed a wireless sensor network in the Cocobolo nature reserve Panama.  
EDUCATION  
Masters of Science in Mathematics  
The University of Vermont  
Math  
University of North Carolina Asheville -  
Integrative Studies  
Warren Wilson College  
LINKS http://cfusting.wordpress.com  
Asheville NC  
   
ADDITIONAL INFORMATION  
KEY SKILLS  
Development  
Seven years of professional development experience using Java C R Julia Scala SQL Javascript Jquery HTML CSS Ruby. Database experience includes PostreSQL SQLServer MySQL. Build systems including Ant  
and Maven. Some experience with embedded systems and wireless sensor networks. I work in Linux.  
Analysis  
Proficient in the automation of data analysis and visualization in R Julia Apache Spark with EC2 using machine  
learning algorithms such as regression decision trees PCA random forests and Glmnet. Experience cleaning and mining text data with regression nai\_ve bayes and Latent Dirichlet Allocation.  
Geospatial  
Extensive experience using open source GIS software including: R's spatial extensions GRASS QGIS and PostGIS. Solid understanding of projection systems and data handling. High level understanding of open source  
geospatial libraries such as GeoTools.