

ALEKS SINGER

Data Scientist/Engineer



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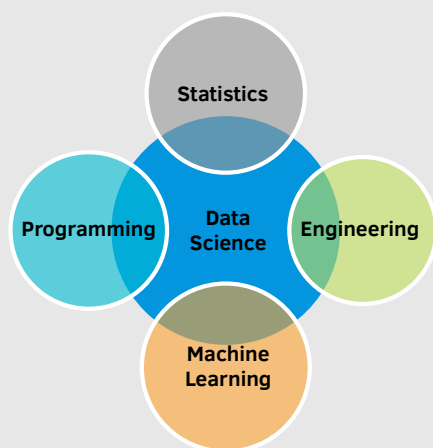
/in/alekslovesdata



alekslovesdata

Technical Skills

Overview



Programming

Low —————> High

Python • R • SQL

HTML • CSS • C++

Octave • KNIME • \LaTeX

Education

MSc., Statistical Genetics

Department: IAD/Biostatistics
University of California, Davis
2017 - 2019 | Davis, CA

BA, Anthropology/Environmental Studies

Princeton University
2011 - 2015 | Princeton, NJ

EXPERIENCE

May 2020 -
current

Data Engineer

Sun Basket

- Migrating a database for increased efficiency with AWS
- Developing forecasting models to predict demand and establishing ETL pipelines to automate food ordering

Mar 2019 -
Mar 2020

Professor of Data Science

University of San Francisco

- Taught courses on data visualization in python and R to 80+ masters students in the MSDS data science program
- Developed curriculum focusing on interactive visualizations using python packages such as plotly, bokeh, and altair.

Sep 2018 -
Dec 2018

Biostatistician

Bayer Cropscience

- Developed machine vision approach for image processing and classification of caterpillar images from microplate photometers
- Trained data science team on how to make R packages in order to build a new protocol for sharing R functions
- Wrote internal R packages shared on BRAN for accessing and processing field trial data from external database SCOUT
- Explored statistical methods for MIC analysis and LD50 so that bench scientists could analyze their dose curve response data

Sep 2018 -
Mar 2019

Graduate Researcher

Runcie Lab, UC Davis

- Wrote masters thesis reviewing machine learning applications for plant breeding under the supervision of Dr. Runcie.
- Ran R scripts on a computer cluster with SLURM in order to test the effectiveness of a new machine learning approach against standard BLUP approaches
- Analyzed output from these scripts and compared to outputs from genomic selection scripts written by CIMMYT researchers

Feb 2018 -
Jul 2018

Research Intern: Software Engineer

CIMMYT

- Raised funding from The Tech for Social Good Competition and RIFA to develop an R package at CIMMYT
- Worked in the Biometrics and Statistics Unit to convert the R code in the ISQG package to C++ for increased efficiency

TEACHING

Aug 2019 -
Dec 2019

Instructor, Data Science

Lambda School

- Predictive Modeling and Linear Regression
- SQL, Postgresql, NoSQL
- Building web apps with python flask
- Data engineering, APIs

Jun 2018 -
Jul 2019

Data Carpentry Certified Instructor

Data Carpentry, Software Carpentry

- Workshops on dplyr and tidyr at the 2-day Data Carpentry Workshop at UC Davis in June 2018
- Data Carpentry training at Genentech Aug 27-28, 2018
- Data Carpentry training at UC Davis Jan 3-4, 2019
- R workshop at Genentech July 21-22, 2019