Doug Sherman

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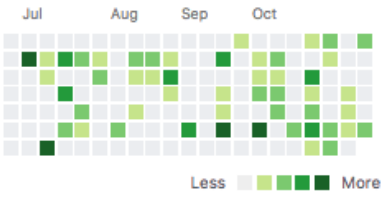

234 Github contributions in the last year

SKILLS

PROGRAMMING

Proficient:
R • Matlab • Bash
Intermediate:
C++ • HTML • Python • Java
Familiar:
Javascript • MySQL • C#

Ask about my 7+ year career in the restaurant industry managing a staff of over 40 employees!

EXPERIENCE

FORAGE GENETICS INT. | Senior Systems Tech

June 2016 – Present | Davis, CA

Google Cloud • Tableau • MySQL • HTML • R • Python • Javascript • Java • Bash

- Lead the development of data science and bioinformatics tools leveraging Tableau and the Google Cloud platform with users throughout the country
- Lead the development of a Java based laboratory management system for tracking and analyzing a high volume of qPCR data in our in-house laboratory
- Responsible for all the data analysis including building QTL, GS, and GWAS
- Constructed a Polyploid dosage calling algorithm by combining semi-supervised and supervised machine learning models
- High throughput lab analyses automated with `cron`
- Full stack development of locally hosted server for UI; including the hardware

UNIVERSITY OF CALIFORNIA - DAVIS | Teaching Assistant

Sept 2017 – Present | Davis, CA

HTML • CSS • Bootstrap

- Developed a webpage for hosting useful tools in assisting the students' learning
- Taught Multivariable Calculus in the Math department this Fall, and will teach Computer Science in the Winter (40-50 Students)

UC DAVIS BIOINFORMATICS CORE | Undergraduate Researcher

Oct 2016 – June 2017 | Davis, CA

Python • Bowtie • BWA • Samtools

- Microbial Community Analysis of microbiota across the 16S gene
- Used deep learning as an alternative to current microbe genome classification
- Developed a novel alignment algorithm that trains on sequence CIGAR strings

GENOME & BIOMEDICAL SCIENCES FACILITY | Researcher

Feb 2016 – July 2016 | Davis, CA

C++ • Matlab

- Researched multiple Machine Learning models including LWPR, LWR, Gaussian Processes, and Neural Networks.
- Performed optimal experimental design (active learning) through feature space uncertainty queries

EDUCATION

COMPUTER SCIENCE, M.S. | May 2018 (Expected)

University of California - Davis | GPA: N/A

Deep Learning • Computer Architecture

MATHEMATICS (COMPUTATIONAL), B.S. | May 2017

University of California - Davis | GPA: 3.96

Non-Linear Optimization • Numerical Analysis • Stochastic Processes

COMPUTER SCIENCE, B.S. | May 2017

University of California - Davis | GPA: 3.92

Machine Learning • Computer Vision • Data Science