Joshua Grant

Data Engineer

a contact

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Experi-

ence

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notjustadatum.blogspot.com B

github.com/sempervent

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objective

to take theories, ideas, and experiments and turn them into production-scalable solutions

</> √> development

Bash:

Docker:

HTML:

JavaScript:

LATEX:

Perl:

PHP:

Python:

R:

SQL:

& flavors

 \mathbf{R} : data.tashinv ble tidyvegan verse testthat devtools DBI leaflet httr ggplot2 beauti-Python: pandas fulsoup PIL xdgboost osgeo rasterstats SQL/DB: MySQL PostgreSQL Mon-Hadoop goDB SQLite Snowflake LATEX: tikzfancyhdr tables booktabs JavaScriptrode.js angular.js *jQuery* vue.js

Data Scientist Subcontractor

Oak Ridge National Laboratory, Oak Ridge, TN 2018 — Present

- Automating data ingestion of the WSTAMP webapp via the use of R, Python, Airflow, and Docker
- Authoring an R package to unify geography between online data APIs

Owner & Contractor-For-Hire

Specrabella, Knoxville, TN 2018 —2018

- Designing, developing, and deploying an interactive energy informatics web application that provides real-time calculation from machine learning derived models
- Consulting with clients on ground-up web application architecture, database and visualization needs
- Developed data ingestion methods using cURL, PHP, and R to scrape energy data from the web
- Streamlined training and development procedures using ansible, vagrant, PHP, and BASH

Bioinformatician, Project Manager, & Technical Sales Representative Microbial Insights, Knoxville, TN 2016—2018

- Established an automated pipeline using R, MySQL, Python, and Bash for NGS analysis, along with intranet website control written in JavaScript and Shiny
- Automated client-bound statistical calculations such as linear models, ANOVA, SOMs, clustering, PCA, and PCoA
- Developed an ETL customer data visualization tool using R, PHP, JQuery, and MySQL to view qPCR results in the context of other samples' and selected parameters
- Optimized data delivery to clients via a custom R package and local shiny applications to quickly generate LATEX PDF reports
- Constructed, populated, and maintained an intranet wiki based using PostgreSQL and PHP to aid in project management and customer service

Graduate Research Assistant, Dr. Neal Stewart's Plant Biotechnology Lab

University of Tennessee, Knoxville, TN 2014 — 2016

- Summarized statistical findings of cell suspensions using linear models, ANOVA, and PCA
- Evaluated suspension cultures via chemical and spectral processes for lignin formation and statistically analyzed and summarized my findings for inclusion in DOE reports
- Collaborated on a novel single cell suspension and cryopreservation robotic system

Laboratory Assistant, Dr. Neal Stewart's Plant Biotechnology Lab University of Tennessee, Knoxville, TN 2012-2014

- Developed automated statistical methodology for screening of lignin content and imaging of cell characteristics both *in vivo* and *in vitro*
- Extracted genomes from NCBI, cleaned and normalized the data, and performed exploratory data analysis

Education Master of Science in Plant Sciences —Plant Molecular Genetics University of Tennessee — Knoxville, TN — Spring 2017 — GPA: 3.72/4.0

Bachelor of Science in Plant Sciences —Biotechnology University of Tennessee — Knoxville, TN — Spring 2014 — GPA: 3.74/4.0

ANOVA Magna Cum Laude

Linear Regression

| Statistics