Cavan Donohoe

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### Looking to improve your company’s data workflow

I have a level of expertise in both R and Excel that helps me both manipulate and analyze data as well as automate monthly tedious tasks. With the mind of a tutor, I make sure to document everything and answer questions quickly and efficiently when I explain my methodology to coworkers or clients. Let’s have a chat so I can help your data from beginning to end.

## Professional Experience

### Senior Statistical Programmer Analyst

#### GRAIL

#### Menlo Park, CA

February 2021 - August 2024

* Authored and maintained new R Packages used on cross production within entire company
* Performed Code Reviews and Independent Analysis for cancer and subject level datasets
* Created new R Markdowns to display hundreds of TFLs (Tables, Figures, and Listings) in order to assess clinical trial accuracy
* Created and documented new Derived Variables for ongoing studies using Git for collaboratio, R for coding, and AWS for cloud storage
* Created a timeline visualizer for significant cancer screenings and events leading to an eventual diagnosis using R Shiny Output
* Maintained complete and auditable programming documentation for analysis of clinical studies
* Provided statistical programming support to data cleaning and locking activities, pre-defined and exploratory analysis, formal reports, publications, presentations, and new statistical methodologies
* Worked closely with biostatisticians to create data and analysis program specifications based on the statistical analysis plan (SAP) and Statistical Process Control
* Contributed to the development, documentation and maintenance of a reusable programming code library
* Write unit tests to ensure programmatic updates will be compatible to previous versions
* Utilize R programming to analyze survival data and assess risk factors
* Developed and maintained Linux cluster environments, including the installation and management of bioinformatics tools for large-scale genomic analysis (Docker).
* Managed the installation and configuration of R packages across multiple environments, ensuring compatibility and stability.
* Stored, indexed, and transferred large-scale genomics and clinical trial data, utilizing high-performance storage solutions and cloud platforms (AWS).

### Reporting Analyst

#### 24 Hour Home Care

#### El Segundo, CA

April 2020 - January 2021

* Automated a weekly report that calculates the Accounts Receivable aging for our company. This weekly report is now being calculated in R and automatically sends an email formatted in HTML with CSS to show summary tables and a highlighted list of achievements
* Imported, Cleaned, Manipulated, and Visualized data for ad hoc dashboard requests
* Assumed role of Analytics team liaison to other teams within the company
* Automated batch invoice emails via R for use between teams to run
* Connected R to Azure Web App to allow for script driven data exports now allowing for automated exports saving teams hundreds of hours per year

### Actuarial Analyst

#### HMSA

#### Honolulu, HI

January 2019 - March 2020

* Automated the CRG (Community Rated Groups) Band Renewal Process in R (8 hour process that now takes 1 minute)
* Developed the demographic and plan risk factors for AMS and Underwriting Department (now automated in R)
* Worked on mandatory ACA rate filing
* Automated the Mental Health Parity process for hundreds of plans
* Automated the Forecasting Model with user friendly Excel and R integration for obtaining data and easing the process
* Automated a tedious CRG proposal process that previously took an hour and now takes 4 seconds
* Explained processes with easily read documentation and hosted meetings to explain modeling changes and methodologies
* Fit empirical distributions to theoretical distributions using Kolmogorov-Smirnov tests and Maximum Likelihood Estimation in R while splitting every single partition of a sample in a time efficient manor

## Education

### Bachelor of Science

#### University of California, Irvine

#### Irvine, CA

2018

* Major in Mathematics
* Minor in Statistics

## Awards

### BAS UCLA Case Competition Finalist ([Project Presentation](http://www.math.ucla.edu/~actuary/caseCompetition/Case%20Comp%202018%20-%20Team%20UCI%20Presentation.pdf) and [Project Memorandum](http://www.math.ucla.edu/~actuary/caseCompetition/Case%20Comp%202018%20-%20Team%20UCI%20Executive%20Summary.pdf))

## Credentials

### Passed 3 Actuarial Exams

## Skills

* Expert in Microsoft Excel and Wide Knowledge of VBA (pivot tables, vlookups, sumifts, etc.)
* Expert in R (tidyverse, RODBC, blastula (email automation), openxslx, APIs, automation, data manipulation, R Markdown, etc.)
* Literally made this resume and website using R