

812 Cameron Drive, Severance, CO 80550

□+12549318313 | ☑ drennanfreddy@gmail.com | ☑ fdrennan | ७ freddydrennan | У fdrennan

EDUCATION AND QUALIFICATIONS

2014-2017	BBA Quantitative Finance with Minor in Math	The University of Texas at Austin
2007-2008	Licensed Practical Nurse - Compact State License	Army Medical Department Center & Schools
2006–2007	EMT - Combat Medical Technician	Army Medical Department Center & Schools

EMPLOYMENT HISTORY

EMI ESTMENT THOTON			
2019-	Business Analytics Manager, Logisticare	Showed predictability in overcharges 90+ days out	
2018-2	D20 Data Scientist , Digital First Media	Increased profit by \$2M with linear programming	
2017-20	Data Optimization Engineer, Digital First Media	Maintainer of Quantum R Package	
2016-2	317 Student Mentor , University of Texas at Austin	Taught R programming	
2010-2	Pediatric / ICU Nurse, Pediatric Services of Americ	a Improved outcomes for pediatric seizure patients	
2008-2	010 Trauma Nurse , 555th Forward Surgical Team	War zone trauma nurse in Kunar, Afghanistan	
2007-2	008 Military ICU Nurse , Darnall Army Medical Center	Treated 1000+ critically ill patients	

PROJECTS/RESPONSIBILITIES

NDEXReddit Platform

- Lead developer and creator of a Reddit analytics platform using AWS, Python, R, and Docker Repo Here
- Aggregates all submissions to Reddit for bad-actor analysis using Airflow and Postgres
- Working in coordination with **Social Forensics** to cross-correlate misinformation on Twitter and Reddit

Logisticare Auto-Assignment

- Formulated mixed-integer program (MIP) to match riders with transportation providers
- Structured model to run off a containerized, load-balanced, R API
- Provides improved and up-to-date transportation recommendations

Overrides Classification

- A \$300K/day problem with high class imbalance and regional variance requiring a multi-model approach
- Predicted 80%+ of the positive class using clever feature engineering
- Allowed Logisticare to begin determining problematic transportation providers to renegotiate contracts

Omni-Channel Advertising Optimization

- A solo data scientist on a team with four front-end developers
- Decreased campaign management time from one hour to five minutes per campaign
- Developed unified and coordinated optimization processes between Adwords, Facebook, and TTD
- Integrated campaign management linking between Salesforce, Data Warehouse and Quantum platform

Adtaxi Mathematics System Administrator

- Maintained production servers and administration for the Quantum backend
- Managed users, software upgrades, deployment, and applications on production servers.
- Built an R API framework which prevented the need for RSConnect and resulted in \$50K/year savings

QuantumR Package

- Manages search budget pacing forces advertising campaigns to spend evenly over a given period
- Optimizes single-channel Trade Desk / Facebook Campaigns boosts conversions per dollar
- Implemented Continuous Integration / Unit Testing

Building A Highly Scalable Load Balanced R API

- Uses Docker Compose and NGINX to route traffic from an entrypoint to various endpoints

• Creating Index Funds Using Integer Programming and Stratified Samples

- Given a sample of n stocks, selects k stocks to represent the whole

Distributed Machine Learning by Hand with R and Caret

- Built EC2 servers to send ML data to AWS and run 40+ models in parallel
- The entire ML framework was developed by myself
- Shows familiarity and comfort leading/developing machine learning models