

## SUMMARY

I am a Seattle based Data Engineer. I have extensive experience designing end-to-end solutions from ETL pipelines, algorithms, databases, websites and other software products for startups and already established corporations. I currently work as a data engineer at a health analytics company.

## SKILLS

### LANGUAGES

Java  
C#  
R, Python, Matlab  
Powershell, Bash

### WEB PROGRAMMING

JQuery  
HTML/CSS  
ASP.NET  
D3.js

### ANALYTICS

Data Modelling  
SQL, MySQL  
Visual Studio  
Tableau

### DATABASE MANAGEMENT

Data Normalization & Warehousing  
ETL, Product Development  
Oracle, SQLServer, Postgres  
AWS - S3, EC2, Redshift

## EXPERIENCE

### Data Engineer | Healthentic | Seattle, WA | Oct 2016 - Present

- Researched and produced 2 algorithms to help discover healthcare costs savings of over 500,000 USD and improve patient treatment
- Collaborated and engineered 3 new software products using SQL, Powershell and Python to help reduce healthcare provider fraud, waste, quality and opioid misuse
- Independently improved major bottlenecks in algorithm and metric processing by decreasing run time by 25%
- Migrated 1 TB data warehouse including stored procedures, triggers, and ETLs from Oracle to SQL Server

#### HIGHLIGHTED PROJECTS:

##### Provider Action Report

- Outlined a new data warehouse and ETL to meet business requirements
- Designed MSSQL database and powershell system to manage fifteen algorithms
- Automated external reporting system to provide an actionable list of high target providers and patients to reach out to
- Developed algorithms to detect fraud across 100,000 healthcare providers and 40 million patients

##### Opioid Report

- Automated the ETL and algorithms that melded data from 5 different databases
- Engineered an algorithm to match patients and transactions across pharmaceutical and dental data with 98% accuracy
- Compared 2 algorithm methodologies to find the best fitting fit for targeting outliers

### Data Science & Engineering Consultant | Acheron Analytics | Seattle, WA | Jan 2017 - Present

- Created and led 8 hour courses in R, Python and SQL focused on ARIMA forecasting, and data analytics to analysts, data scientists, and directors
- Engineered automated systems for marketing and healthcare ROI decision products using MSSQL and Python
- Conducted 2 executive workshops to discuss implementing data science techniques into upper level strategy

### Business Intelligence Developer | Providence Health and Services | Seattle, WA | July 2015 - Oct 2016

- Managed 500 GB data warehouse for the Information Systems department which included financial, project tracking, talent acquisition, and HR data
- Reduced Information System budget by 20% by developing C# application connected to SQL server database
- Coded a report delivery UI that allows end-user modification to provide report timing using C# and JQuery
- Designed MVC financial reporting website using C# and MSSQL for managers and directors
- Predicted future resource requirement in order to reduce contractor spend and increase quality of service through data science techniques such as multivariate regression

### MIS Analysis Grader | University of Washington | Seattle, WA | Jan 2016 – Mar 2016

- Analyzed 80+ students MySQL relational databases and Excel projects for proficient use of SQL, normalization practices, and statistical formulas
- Coached students on writing data drive and actionable executive summaries by critiquing data usage

### Lead Instructor | Coding With Kids | Seattle, WA | Aug 2014 – Aug 2015

- Instructed computer science theory to over 100 students

## EDUCATION

### University of Washington, 2015

B.A. Management Information Systems

GPA: 3.7