

RYAN BREEN

Greenville, SC 29617 | 864.908.5855 | ryanbreen19@gmail.com

SKILLS

SQL/SSMS/Alteryx	Statistical Analysis/R	Excel/Power Query	MS Office/Teams	GitHub/Source Control
Data Warehouses	Multidisciplinary Teams	Tableau/Qlik/Power BI	Client Requirements	Visio/Data Modelling

PROJECTS

Personal Portfolio: <https://ryansstacks.github.io/RyanStacks.github.io/>

Medical Laboratory Web Application - Tableau | SQL | Python | Flask

Advanced original SQL scripting (135 pages) using Triggers, Functions, CTEs, and Materialized Views to create a dynamic database that stores clinical laboratory data used for a Python web application using Flask.

Deep Learning Classification with Keras Convolutional Neural Networks - Keras | Machine Learning

A Convolutional Neural Networks algorithm trained to classify blood cells as based on textural and coloristic attributes of the cells. When introduced to large number of training images, the classifier may identify malignant cells with 98% accuracy.

Predicting Emergency Room Length of Stay with Regression Models – Scikit Learn | Python | Jupyter

An end-to-end comparison of Random Forest, Support Vector Machines, and Linear Regression is performed using hospital data (60000 rows) to create models that predict a patient's length of stay at a hospital.

EXPERIENCE

Allegheny Health Network

Data Analyst (Full-Time) Apr 2023 to Aug 2024

- Developed SQL code and Advanced Excel for 20+ reports from Client Requirements from a SQL Data Warehouse
- Designed value drive Tableau operational dashboards guiding key business insights and decisions
- Communicated data insights to stakeholder via live presentations and mentored non-technical staff on technical jargon

Prisma Health

Clinical Lab Scientist (Part-Time) Apr 2021 to Oct 2021

Clinical Lab Scientist (Full-Time) Feb 2019 to Aug 2020

- Validated clinical data for 2 new clinical analyzers using regulator requirements and managed the study participants
- Improved quality control data via A/B testing to a 95% acceptance using statistical testing and problem-solved issues

Aureus Medical Travel

Travel Technologist (Various-Temp-Contracts) Sep 2017 to Mar 2021

- Assisted on 3 different travel contracts learning many new analyzers/LIS systems between graduate school prerequisites courses
- Demonstrated excellent teamwork and time-management skills during Covid-19 cover over 3 departments at same time

Atrium Healthcare

Lead Clinical Lab Scientist (Full-Time) Aug 2016 to Sep 2017

- Served as a Lead assisting in training, competency, and scheduling of 4 person team ensuring accuracy of clinical data
- Resolved technical issues with 5 analyzers by communicating with staff and analyzing clinical data using control charts

Cambridge Health Alliance

Clinical Lab Scientist (Full-Time) Jul 2009 to Aug 2016

- Performed Deming Regression on all laboratory analyzers using EP21 statistical software to verify analyzer reliability
- Work on team that validated clinical data for new clinical analyzers including population studies, correlations, and confidence intervals

EDUCATION

Eastern University

Data Science (Master's in Science) GPA: 4.00 Jun 2021 to Aug 2022

Courses: Databases(SQL), Machine Learning (Sklearn), Reporting (Tableau), Deep Learning (Keras), Statistics (R)

University of Buffalo

Medical Technology (Bachelor's in Science) GPA: 3.67 Jul 2007 to Aug 2009

Courses: Clinical Correlations, Analytical Methods, Procedural Writing, Laboratory Information Systems