

# RYAN BREEN

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## OBJECTIVES

“Applying analytic skills combined with 10 years of laboratory experience to serve as a major support to the clinical diagnostic industry.”

## SKILLS

SQL / SSIS	Statistical Analysis / R	Dashboard /Reports	MS Office / Teams	Git/Source Control
Data Warehouses	Python Programming	Tableau / Qlik / Power BI	Excel /Power Query	Machine Learning

## 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

Medical Technologist (Part-Time) Apr 2021 to Oct 2021

Medical Technologist (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 Technologist (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

Medical Technologist (Full-Time) Jul 2009 to Aug 2016

- Performed Deming Regression on all laboratory analyzers using EP21 statistical software to verify analyzer reliability

## 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