
Matthew Barclay

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PROFESSIONAL SKILLS SUMMARY

Coding Languages

R (*Tidyverse*, *Ggplot2*)
SQL (*SQLite*, *MS SQL Server*)
Julia (*DataFrames*, *MLJ*)
Python (*pandas*, *numpy*, *sklearn*)

Software

Microsoft Office
RStudio
Looker, Power BI
Epic Hyperspace, Epic CRM

TECHNICAL EXPERIENCE

MyChart Technical Solutions Engineer, Epic / Verona, WI

August 2021-June 2023

- Analyzed customer MyChart website APIs, CSS, HTML, and IIS web server configurations to ensure optimal patient experience and prevent downtime events
- Developed SQL and M code to build custom KPI metrics and dashboards to collect user usage data and inform business decisions
- Created and led the MyChart Documents and E-Signatures Workgroup to improve internal team collaboration, knowledge, documentation, and processes
- Reviewed error log fix implementations and developed custom search code to identify affected customer code within one week of error logging
- Cultivated direct customer service relationships with Epic analyst and IT departments at four large health systems impacting over 1.2 million active MyChart users to troubleshoot daily issues and manage long-term project implementations
- Oversaw the implementation of hundreds of automated kiosks at over 50 clinic locations to improve check-in process flow and save end-users up to 10 minutes per patient

Data Science Consultant, Rice University Statistics Department / Houston, TX

August 2020-December 2020

- Fielded data analysis questions from the Rice University and greater Houston data science communities
- Generated data structure and analysis technique recommendation reports on weekly timelines to answer community questions
- Acquired experience on the implementation of various data analytic techniques including regression analysis, cluster analysis, principal component analysis (PCA), and mixed effects modeling

RESEARCH & TEACHING EXPERIENCE

Lab Teaching Assistant, Rice University Statistics Department / Houston, TX

August 2020-May 2021

- Led virtual lab sessions teaching R statistics coding language to reinforce lecture and homework learning goals
- Coordinated with a group of two TAs to respond to student questions within 24 hours
- Achieved course evaluations above campus averages for lab sessions

Research Assistant, Gustin, Bennett, and Braam labs / Houston, TX

August 2018-May 2021

- Devised research questions and constructed experiments to solve environmental and industry problems
- Developed independent research projects to edit reef coral DNA, engineer E. coli for alternative feedstocks, and identify molecular defense mechanisms in plants
- Presented results in lab-wide meetings to expand peer knowledge

EDUCATION

University of California, Riverside / Riverside, CA

September 2023-June 2024

Master of Science, Business Analytics

Rice University / Houston, TX

August 2017-May 2021

Bachelor of Science, Biological Science, Statistics minor