PARKER RAM

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Statistics Major, 3rd year

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TECHNICAL SKILLS

- Programming: Java, PostgreSQL, R, Python, PostgreSQL, C++, Matlab
- Tools & Technologies: Git, AWS, Looker, Tableau, NumPy, Pandas

TECHNICAL WORK EXPERIENCE

Software Development Engineer Intern Sept 2019 – Present

Amazon Web Services (AWS)

- Currently working on a backend Java application for the SNS team

Data Analyst Co-op Apr 2019 – Aug 2019

FreshBooks Inc.

- Translated raw data coming from multiple sources to actionable insights using PostgreSQL, R and Tableau
- Transformed data in LookML codebase to increase modularity for versatile and accurate reporting in Looker dashboards
- Collaborated with internal clients to scope & execute complex analyses on customer trends and long-term campaign performance

Teaching Assistant (CPSC 221 – Intro to Data Structures & Algorithms) Jan 2019 – Apr 2019

The University of British Columbia

- Held multiple office hour weekly to provide assistance with C++ coding assignments
- Assignments involved implementing various data structures and algorithms to solve problems such as traversing a maze or flood filling an image using breadth- and depth-first traversal

TECHNICAL PROJECTS / ASSIGNMENTS

Powerlifting Data Analysis using Python (Personal) Jan 2019 – May 2019

- Utilized data visualizations to investigate if drug-tested federations contain weaker competitors and the key factors effecting overall strength
- Quantitatively confirmed suspicions from visualizations using hypothesis testing
- Trained a linear model with a polynomial basis to predict an athlete's bodyweight achieving a RMSE of 0.202 on the test set
- Applied computing packages such as NumPy, Pandas, Matplotlib, Seaborn and Scikit-learn to clean, visualize and model the data

Chronic Kidney Disease Dataset Analysis (Academic) Mar 2019 – Apr 2019

- Investigated key health indicators for chronic kidney disease using visualizations and correlation analysis
- Found that hemoglobin levels, packed cell volume, red blood cell count, diabetes mellitus, hypertension, albumin and specific gravity to have highest predictive power, agreeing with literature
- Achieved 100% accuracy using KNN to classify whether a patient has kidney disease or not

Buses R Us Android Application (Academic) Feb 2018 – Apr 2018

- Familiarized self with existing codebase to finish implementation of application
- Communicated with Translink API to give users real-time updates on bus arrivals
- Wrote a JSON parser to extract information and display this information on a map
- Rigorously tested code using Junit

EDUCATION

BSc. Statistic Expected Graduation: May 2021

The University of British Columbia

- Coursework: Data Structures & Algorithms, Software Construction, Machine Learning & Data Mining, Intro to Statistical Inference, Finding Relationships in Data, Time Series & Forecasting