

Bryson Tang | Chelmsford, MA 01863 | www.linkedin.com/in/bryson-t-datascience
Email: bmtang@wpi.edu | Phone: 978-935-6430 | Website: www.brysontang.com

Summary

Driven WPI student with strong programming and math background looking for full time entry-level position in Data Science.

EDUCATION

Bachelor of Science in Data Science, Minor in Mathematical Science, GPA 3.75/4.0, 5/2021
Worcester Polytechnic Institute (WPI), Worcester, MA

TECHNICAL SKILLS

Software: Git, Jupyter Lab, DBeaver, AWS, Tableau Public, Swagger, Microsoft Excel, Jira, MacOS, Linux

Programming Languages: R, Python, Pandas, PostgreSQL, NodeJS, Vue.js, Java, HTML, CSS, Yaml, Apex Salesforce, Golang

COMPETENCIES

Data Science, Big Data, Amazon Web Services/AWS (Data Storage), Predictive Modelling, Machine Learning, Data Visualization, Regression Models, Data Cleaning, Applied Math and Statistics, Calculus, Microsoft Excel: StatTools, PrecisionTree

PROJECTS

Major Qualifying Project (MQP) | Dell EMC/WPI | Worcester, MA 9/2020 – Current
Working with student team and Dell EMC domain experts on evaluating and determining the root cause of board failure by analyzing diagnostic logs. Utilized data mining, feature selection, mathematical modeling, and artificial intelligence (deep learning) in order to predict and diagnose when and why a board will fail. Met weekly with Dell EMC and presented latest finding with explanatory graphs to make sure they aligned with the project vision. Utilized feature selection techniques such as Chi Squared and Pearson correlation.

Project EVE | Florida Institute of Technology (FIT) | Melbourne, FL 1/2020 – 7/2020
Developed R scripts that cleaned, visualized, and analyzed launch data from test flights, in order to streamline analysis for team. An example being automatically calculating the apex of the flight and running a linear regression to calculate descent velocity. Also, to spot inconsistencies in parachute the R^2 value was looked at.

Statistical Learning | Worcester Polytechnic Institute (WPI) | Worcester, MA 3/2020 – 5/2020
Utilized machine learning techniques with R such as linear regression (stepwise selection), lasso regression, random forest, and neural networks on 3 Gb of sports data to predict outcome of March Madness. Also performed hierarchical cross-validation to avoid data snooping in model. Tuned hyperparameters, such as number of trees in forest and nodes in hidden layer to increase accuracy.

Interactive Qualifying Project (IQP) | Xin Foundation/WPI | Hangzhou, China 11/2019 – 12/2019
Assembled non-bias survey with team asking Chinese students their perception of mental health and mindfulness. Worked with students from sponsor university on cultural translation of questions. The survey had an outreach of 400 responses, we utilized statistical regression models, data visualization, and infographics to analyze responses for decision makers at sponsor company.

INTERNSHIP EXPERIENCE

Researcher Intern | Worcester Polytechnic Institute (WPI) | Worcester, MA 6/2020 – 8/2020
Collected, mined, architected, and hosted various datasets relation to the COVID-19 pandemic in order to aid future research utilizing Pandas. Wrote Cron jobs to call python scripts daily that automatically prepared data to be inserted into MySQL database.

Software Engineering Intern | CyberSN | Boston, MA 8/2017 – 1/2020
Collaborated with Development team that utilized rapid development techniques to deliver a high value internal application (Blitz) for the Regional Outbound Sales teams. Also, documented coding standards of Blitz to reduce future technical debt. Implemented database architecture to filter data for users and permissions that restrict the data to authorized users.

Intern | Biscom | Chelmsford, MA 6/2015 – 8/2017
Queried and data mined PostgreSQL database in order find the story within a large dataset of user usage. Visualized results and created a PowerPoint to present to decision maker and engineering team on user use patterns to steer future development.

LEADERSHIP

Data Science Council | Worcester Polytechnical Institute | Worcester, MA 11/2020 – 5/2021
Vice President | Undergraduate Data Science Club | Worcester, MA 1/2021 – 5/2021
President | Phi Sigma Kappa Fraternity | Worcester, MA 3/2019 – 10/2019
Secretary | Society of Industrial and Applied Mathematics | Worcester, MA 1/2018 – 4/2018