DANA ROCHA

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EDUCATION

Northeastern University   **Boston, MA**
Master of Science in Bioinformatics and Graduate Certificate in Data Analytics (3.6/4)   *Expected Dec. 2020*
Relevant Coursework: Algorithms, Bioinformatics Programming, Computational Statistics

Northeastern University   **Boston, MA**
Bachelor of Science in Biochemistry   *Aug. 2018*

TECHNICAL SKILLS

Languages Python 3, R, SQL, HTML5, CSS3, JavaScript
Software PyCharm, Git, RStudio, Spotfire, Pipeline Pilot, DBeaver, Oracle SQL Developer

TECHNICAL EXPERIENCE

Merck & Co.   **Boston, MA**
Modeling & Informatics Co-op – MRL Computational and Structural Chemistry   *Jan. – Aug. 2020*
- Trained Naïve Bayes classification models to identify relationships between compounds, genes, and disease
- Built workflows to process chemical data from public and internal databases using Pipeline Pilot and SQL
- Delivered three knowledge-based compound sets for phenotypic screening programs in Chemical Biology
- Created interactive data visualization dashboards using Spotfire
- Led presentation of data insights to chemists and data scientists within Chemical Biology and Informatics

RESEARCH EXPERIENCE

Orig3n Inc.   **Boston, MA**
Research Assistant Co-op   *Jul. – Dec. 2017*
- Maintained hiPSC, MSC, and RPE cell cultures for internal assays and animal studies
- Characterized cell cultures with fluorescence microscopy and flow cytometry
- Represented Orig3n as a brand ambassador at events in New York City, Baltimore, and Lake Tahoe

Brigham and Women's Hospital – CCI Specimen Processing Lab   **Boston, MA**
Lab Technician Co-op   *Jun. – Dec. 2016*
- Processed specimens for clinical studies conducted by the CCI Units and Emergency Department
- Completed all documentation required for individual specimens according to research protocol requirements
- Maintained laboratory instrumentation to performance standards

PROJECTS

Book Recommendation App   *Current*
- Building a web app that displays and gives book recommendations using Python 3, Flask, and PostgreSQL
- Accessing a public dataset from Goodreads with 1 million book ratings across 10,000 books

Mapping Manhattan by Distance to Nearest Subway Stations   *Jun. 2020*
- Created Python script to compute distance using Pandas, Scikit-learn, and Numpy
- Visualized data with an interactive choropleth map using the Plotly library in Python 3
- Processed data from NYC MapPLUTO dataset and New York City Capital Planning Platform