DANA ROCHA

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EDUCATION

Northeastern University   **Boston, MA**
Master of Science in Bioinformatics, Graduate Certificate in Data Analytics (3.66/4.0)   *Dec 2020*
Relevant Coursework: Algorithms, Bioinformatics Programming, Data Mining/Machine Learning

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

TECHNICAL SKILLS

Languages Python, R, SQL, HTML5, CSS3, JavaScript, LATEX
Packages Matplotlib, Pandas, NumPy, Ggplot2
Tools   Visual Studio Code, PyCharm, RStudio, Spotfire, Pipeline Pilot, Confluence, SharePoint
Databases Oracle, MySQL, MongoDB

PROFESSIONAL EXPERIENCE

Merck & Co.   **Boston, MA**
Informatics Co-op – MRL Computational and Structural Chemistry   *Jan 2020 – Aug 2020*
- Trained machine learning models to identify relationships between compounds, genes, and diseases
- Queried chemical data from public and internal databases using Pipeline Pilot, Pilot Script, and SQL
- Delivered compound sets to three drug discovery research programs in Chemical Biology for initial testing
- Created interactive Spotfire data visualization dashboards for over 140,000 compounds and genes
- Presented data insights to chemists and data scientists within Chemical Biology and Informatics
- Led weekly meetings with co-workers to promote an inclusive virtual community during global pandemic

Orig3n Inc.   **Boston, MA**
Research Assistant Co-op   *Jul 2017 – Dec 2017*
- Maintained stem cell cultures for internal assays and animal studies
- Characterized stem 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   **Boston, MA**
Lab Technician Co-op – CCI Specimen Processing Lab   *Jun 2016 – Dec 2016*
- Processed specimens for clinical studies conducted by the CCI Units and Emergency Department
- Completed all documentation required for individual specimens according to protocol requirements
- Maintained laboratory instrumentation to performance standards

LEADERSHIP EXPERIENCE

Northeastern University   **Remote**
Student Facilitator – Graduate Leadership Institute   *Feb 2021 – Present*
- Mentored 40 graduate students on developing leadership competencies outlined by learning goals
- Led weekly online workshops and discussions with students
- Oversaw logistics for online workshops and discussions using Zoom and FlipGrid
- Hosted weekly virtual meetings with co-facilitators to plan workshops, activities, and presentations

PROJECTS

Heart Failure Prediction   Dec 2020
- Created classification models to predict survival of heart failure patients using R with over 81% accuracy
- Trained, tested, tuned classification models using k-NN, Support Vector Machines, and ANN algorithms
- Built a bootstrapped ensemble model with 86.66% prediction accuracy