# DANIEL TANG

## B.S. COMPUTER SCIENCE, DATA SCIENCE


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## EXPERIENCE

### Corporate Software Engineering Intern

**JPMorgan Chase & Co.**

June 2019 – August 2019  Houston, Texas

- Worked on a Corporate and Investment Banking application, in Java, for trade and trade allocation which renders client email, confirms trade details with front office trade application, and allocates funds according to client guidelines sent in the email.
- Created a file poller, synergizing with a firm-specific strategic framework, which receives a CSV/TSV file as input, reads the contents, and sends data to progressive in line processors to be converted into Java data objects, enriched, and translated into FIX strings.
- Designed and implemented a JVM memory leak analyzer using Python and shell scripting to grep .live and .all files, regex to parse the fields, and functional programming to filter results. Returned a CSV containing data regarding the analysis.

### Research/Bioinformatics Intern

**Oregon Health and Science University**

May 2018 – August 2018  Portland, Oregon

- Automated, using Python, the detection of indels in barcoded mice DNA, minimizing background rate of detection through the use of modular operations, and random variable quantification.
  github.com/dtang5/IndelDetectionAmplicon
- Tested a safer and more effective viral gene therapy for most liver-related diseases and cancers by designing a new method to select for genetically modified cells while the patient is alive and creating vectors through molecular cloning. The results from my experiments redirected the lab's research focus and my CRISPR construct is now widely used among its members.

## PROJECTS

### Sentiment Analysis for Yelp Reviews: Star Prediction

**Machine Learning for Data Science**

November 2019  https://git.io/Jex45

- An interactive web app (https://tinyurl.com/wrsbwcx) introducing the concept of a suggestive Yelp Rating. Using NLP and models such as multinomial logistic regression and SVM, we are able to provide an accurate rating that corresponds to any text review of any product.
- Created using Python, Flask, HTML/CSS, JavaScript, and Bootstrap.

### Houston Weather Pattern Prediction

**Rice Datathon**

January 2019  github.com/dtang5/RiceDatathon2018

- Used KNN and logistic regression to predict, with 70% accuracy, one of 33 weather patterns in Houston, given temperature, pressure, humidity and wind speed of any given day.

## OBJECTIVE

**Seeking:** Full time Software Engineering or Data Science position for 2021 Grad.

## EDUCATION

### B.S. Computer Science, Data Science

**Rice University | GPA 3.7**

Aug 2017 – May 2021

Google Developer Student Club Lead, CS Club, Data Science Club, HackRice 8/8.5, Datathon, 3-Day Startup

### High School

**West Linn High School | GPA 4.46**

Sept 2013 – June 2017

Valedictorian, 2-time International Science and Engineering Fair Finalist

## COURSEWORK

Computational Thinking | Program Design | Matrix Analysis | Algorithmic Thinking | Statistics for DS | Adv. Algorithms | Databases | Computer Eng. | Machine Learning for DS

## ACCOMPLISHMENTS

**J.P. Morgan Chase Best Hack for Financial Literacy**
HackRice 8.0

**President's Honor Roll**
Rice University

**Trustee Distinguished Scholar**
Rice University

## SKILLS

Python | PySpark | Java | HTML/CSS | MATLAB | R | SQL | AWS | ReactJS | OOP | Functional Programming | Neo4J | MongoDB | LaTeX