

# 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

### Financial Simulator

#### HackRice 8.0

Sept 2018    github.com/dtang5/hackrice18

- An interactive web application that displays statistics for retirement (401k), mortgages, and credit card payments upon user input. Introduces an educational and intuitive tool for teaching financial literacy to the young adult population.
- 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: Summer 2020 Software Engineering, Data Science Internship  
Competing Offer Deadline: Oct 1st, 2019

## EDUCATION

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

#### Rice University | GPA 3.7

Aug 2017 – May 2021

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

## ACCOMPLISHMENTS

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

President's Honor Roll  
Rice University

Trustee Distinguished Scholar  
Rice University

## STRENGTHS

Hard-working    Eye for detail  
Motivator & Leader    Always learning

Python    PySpark    JAVA    HTML/CSS  
MATLAB    R    SQL    AWS    LaTeX

## COURSEWORK

Computational Thinking    Program Design  
Matrix Analysis    Algorithmic Thinking  
Statistics for Data Science  
Adv. Algorithms    Databases  
Computer Eng.