

# 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 middle office trade processing for the Corporate and Investment Bank line of business.
- Worked on creating a file poller 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 and enriched.

### 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.

## 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

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.

## EDUCATION

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

#### Rice University

Aug 2017 – May 2021

CS Club, Data Science Club, HackRice 8/8.5, Datathon, 3-Day Startup

### High School

#### West Linn High School

Sept 2013 – June 2017

Valedictorian, 2-time International Science and Engineering Fair Finalist