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 and allocation for the Corporate and Investment Bank line of business.
- Application 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.

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 | 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.

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