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 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

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