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 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 and detect memory leaks. 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.

ACCOMPLISHMENTS

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

📖 **President's Honor Roll**
Rice University

🎓 **Trustee Distinguished Scholar**
Rice University

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

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.