DANIEL TANG

B.A. COMPUTER SCIENCE, DATA SCIENCE

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in https://linkedin.com/in/dtang5   ○ https://github.com/dtang5

EXPERIENCE

Full-Time Data & Analytics Consultant
Credera

📅 June 2020 – Current   📍 Houston, TX

- Cloud Data Warehouse Modernization Team - worked on ETL flows for pipelining data into AWS Redshift using AWS GLUE. Incorporated design patterns such as change data capture (CDC) into these ETL flows & demonstrated the use of running SQL in Redshift using AWS Lambda/Step Functions. Worked on cross-account Redshift connectivity for querying Redshift from different AWS accounts.

- Data science capability group - member of the natural language processing (NLP) team, focused on creating POCs and tutorials for NLP, with the goal of winning NLP focused projects from our clients.

Software Engineering Intern
Coinbase

📅 May 2020 – August 2020   📍 San Francisco, California (Remote)

- Worked on the Coinbase Monorail and the Notifications API, Chasqui, as a member of the Consumer Backend Growth Team. Developed, end-to-end, a Chasqui placeholder localization tool. Steps included writing a tech doc for design, coding the localization, a migration step to integrate this Chasqui tool into the Monorail, a bugbash for the integration split test, and a well-orchestrated rollout.

Data Scientist - Credit Risk Prediction Team
Bill.com/Rice D2K

📅 January 2020 – May 2020   📍 Houston, Texas

- Responsible for working on a team of Rice graduate and undergraduate students with Bill.com in developing a credit risk prediction model to accelerate B2B payments and predict default before it occurs.

Software Engineering (Developer #5)
AirMettle, Inc.

📅 December 2019 – Current   📍 Houston, Texas

- Stealth mode intelligent data storage startup. Responsible for maintaining database, running SQL queries and computing metrics on AWS RDS to test novel storage technology. Worked with CEO on business development and entrepreneurship.

Software Engineering Intern
JPMorgan Chase & Co.

📅 June 2019 – August 2019   📍 Houston, Texas

- Worked on a Corporate and Investment Banking application, a file poller, 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. Designed and implemented a JVM memory leak analyzer.

SKILLS

Python | PySpark | Ruby on Rails | Java | HTML/CSS | MATLAB | R | C | SQL | AWS
Github | ReactJS | OOP | Functional Programming | Neo4J | MongoDB | LaTeX

EDUCATION

B.A. Computer Science, Data Science
Rice University | GPA 3.54

📅 Aug 2017 – May 2021

TA - Masters level Databases (COMP 630), Reasoning about Algorithms (COMP 382), Algorithmic Thinking (COMP 182); President's Honor Roll, Trustee Distinguished Scholar, Google Developer Student Club Lead, 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

PROJECTS

Sentiment Analysis for Yelp Reviews: Star Prediction
Machine Learning for Data Science

📅 November 2019   ○ https://git.io/Jex45

- An interactive web app (**https://tinyurl.com/wrsbwcx**) introducing the concept of a suggestive Yelp Rating. Provides an accurate rating that corresponds to any text review of any product using NLP and models such as multinomial logistic regression and SVM.

Chevron Drill Penetration Rate Prediction
Rice Datathon 2020 - 2nd Place

📅 January 2020   ○ https://git.io/JvEaz

- Predicted drill penetration rate given categorical and continuous variables relating to offshore oil rig ($\sqrt{MSE} = 16, \sigma = 80$). One-hot encoding used to pre-process data and Random Forest/CNN used to generate prediction.

COURSEWORK

Computational Thinking | Program Design
Matrix Analysis | Algorithmic Thinking
Statistics for DS | Adv. Algorithms | Databases
Computer Eng. | Machine Learning for DS
Applied Machine Learning | Parallel Programming
Computer Systems | Operating Systems | Compilers
Adv OOP