

Siqi (Sally) Guo

linkedin.com/in/sally-siqi-guo/
siqi.guo@capitalone.com | (412)539-7287

EDUCATION

CARNEGIE MELLON UNIVERSITY | B.S. IN STATISTICS AND MACHINE LEARNING

May 2018 | Pittsburgh, PA | GPA: 3.5/4.0 | University Honors

Minor in Business Administration | Science and Humanities Scholar | Dean's List

RELEVANT COURSEWORK

Intro to Machine Learning | Natural Language Processing | Data Structures and Algorithms | Advanced Data Analysis

EXPERIENCE

CAPITAL ONE | ASSOCIATE SOFTWARE ENGINEER IN TRAINING (CODA)

Jul 2018 – current | McLean, VA

- Participate in 6-month software-engineering immersive training on:
 - Front-end web development: HTML, CSS, JavaScript
 - Back-end development: Node, Express, React, Angular
 - Code security and testing: OWASP, Mocha, Chai, Jasmine
- Recreated Popcap Studio's Mummy Maze game using HTML, CSS, JavaScript, and Google Firebase. Implemented a logic-based AI for the non-player character ("the mummy") using the Finite State Machine algorithm. This project is deployed via Netlify.
- Developed a meal tracking application using Node Express and PostgreSQL database. Collaborated with a partner, managed version control with Git, and deployed via Heroku.

THE BANK OF NEW YORK MELLON | TECHNOLOGY SUMMER ANALYST

Jun 2017 – Aug 2017 | Pittsburgh, PA

- Full Stack Developer on the Third Party Governance Application under the Finance Technology Department
- Incorporated front-end and back-end changes on the application by integrating client needs and feedback
- Analyzed team performance with JIRA data using R

CARNEGIE MELLON UNIVERSITY | TEACHING ASSISTANT

Sep 2016 - May 2018 | Pittsburgh, PA

- Teaching Assistant for **Introduction to Statistical Visualization** Spring 2018
- Teaching Assistant for **Introduction to Probability Theory** Fall 2016, Fall 2017

RESEARCH PROJECTS

DIFFERENTIATING STARS AND GALAXIES IN SDSS AND WISE DATA

Sep 2015 – Dec 2015 | Advisor: Peter Freeman

Identify portions of brightness-space where the probability that an object is a star is substantially higher than the mean probability using a regression model using regression trees and random forests in R. Presented at the CMU Meeting of the Minds Undergraduate Research Symposium in May 2016, and received the Early Research Award of the Statistics Poster Competition.

CMU FRESHMAN ROOMMATE EXPERIENCE SURVEY

Jan 2017 – May 2017 | Advisor: Jared Murray

Conducted an in-person survey in freshmen dorms and constructed a regression model in R in order to learn which variables impact freshmen roommate relationships the most, and measure the effectiveness of random roommate assignment algorithm.

TECHNICAL SKILLS

Proficient:

R • Python • JavaScript • HTML • CSS • Node • Express • React • Angular 6 • PostgreSQL • MongoDB

Familiar:

SQL • \LaTeX • C • Mathematica

LEADERSHIP AND HONORS

Japanese Student Association: Fundraising Chair

Alpha Chi Omega - Kappa Nu: VP Panhellenic Delegate

Order of Omega Greek Honor Society

Omega Rho Honor Society in Operations Research:

Co-Founder, VP of Operations