TRINA CHATTERJEE

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EDUCATION

UT Austin Turing Scholars Program *Expected Graduation Date: Dec. 2022*

- B.S. Computer Science
- Coursework: Data Structures (Honors), Computer Architecture (Honors), Intro to Machine Learning (Coursera), Discrete Math (Honors), Linear Algebra (Honors), Statistics & Probability, Multivariable Calculus, Differential Equations

WORK EXPERIENCE

NASA Ames Research Center *January 2019 - August 2019*
Spring and Summer Intern

- Modeled airplane accidents in SysML (Systems Modelling Language) and created a framework to provide risk assessments for airplane flights.
- Worked with two graduate students to write an AIAA Conference Paper

Computer History Museum *Summer 2017*
June 2019 - August 2019

- Designed system using Raspberry Pis and Python that detects the health of coral reefs by measuring their temperature underwater
- Presented at Cal Academy of Sciences in San Francisco

SELECTED PROJECTS

SafeDrinks - TreeHacks @ Stanford *February 2020*

- Full-stack web application (ReactJS, Fitbit SDK, Google Maps API, Scikit-Learn, Microsoft Azure) that enables friend groups to be safer at parties by monitoring each friend's location and BAC
- App gathers real-time heart rate and motion data from user's Fitbit and uses an SVM machine learning model to predict user's blood alcohol concentration

Candi(day in the life) *February 2020*

- Built an interactive web application using ReactJS and HTML/CSS that educates college students about voting by creating scenarios where players can see the effects of different candidate's proposals on their life

WebCrawler *October 2019*

- Built a Google-style web crawler and search engine in Java that crawls a portion of the web, creates an index of stored web pages, and returns webpages corresponding to various types of queries. Utilized multiple data structures including: HashMap, HashSet, Stack, and Queue.
- Used JUnit to develop testing harness that tests accuracy of modular components of code

Secure Your Flight - HackTX @ UT Austin *October 2019*

- Built full-stack web application that crowdsources security and check-in line times for airplane flights using HTML/CSS, Python Flask, and SQL
- Worked on using Python requests library to gather data from American Airlines API and Google Maps API

SKILLS

Languages & Tools

- Proficient: Java, C, HTML/CSS, Javascript (React, Node.js)
- Familiar: Python (Flask, TensorFlow, Scikit-learn), MySQL, Firebase
- Tools: Git, Bash, Vim, JUnit Testing, Android Studio

HONORS

- HackTX Winner - 2nd Place American Airlines API Challenge *2019*
- National Center for Women & Information Technology (NCWIT) Bay Area Award Winner *2019*
- Nationally ranked Chess player - Top 10 Girls Age 18 in US, Top 100 Women in US *2019*
- FIRST Robotics World Championship Quarterfinalist Team *2018*
- USA Computing Olympiad Silver Division *2018*