Tristan Ha

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EDUCATION

University of California, Irvine   Oct 2020 - Jun 2023

Bachelor of Science, Computer Science | GPA: **3.745**
- Selected Coursework: Data Structures & Algorithms, Linear Algebra, Discrete Math, Statistics.

WORK EXPERIENCE

US Forest Service - Remote Programming Intern   Sep 2020 - April 2021
- Developed survey application using ArcGIS Survey123 for field data collection of spring ecosystems.
- Conceived and presented ideas for improving data importation onto Springs Online database.

SKILLS

Programming Languages: Python, C/C++, Java, JavaScript, Assembly, HTML, CSS, SQL.

Technologies: Git, GitHub, Bash, Arduino, MIPS, PyGame, ArcGIS.

PROJECTS (available at github.com/TristanHaHa)

Course Projects   Oct 2020 - May 2021
- Constructed keypress handling mechanism for command line text editor using inheritance in C++.
- Completed model portion of MVC physics simulation employing inheritance in Python.
- Built 2 player Tic-Tac-Toe game with network socket communication and a GUI in Python.

Catan Statistics Tracker - Python, PyGame   Aug 2020 - Sep 2020
- Designed a board game statistics tracker with auto scaling bar graphs utilizing PyGame framework.
- Programmed a dice roller and turn tracker, reducing average turn time from **3 minutes** to **1.5 minutes**.

Tetris Game - Java, Java Swing   Mar 2020 - Jun 2020
- Implemented Tetris in Java utilizing Java Swing Graphics and object-oriented programming.

Binary Communicator (Hackathon) - Arduino, Adafruit   Mar 2019
- Developed a microcontroller binary communication program with partner using sound sensors.
- **Won 1st place** in "Technical" category in Microsoft-sponsored eTexathon(); **(50+ competitors)**.

Voter's Choice (App Competition) - JavaScript, AppLab   Aug 2018 - Oct 2018
- Created an award-winning voting app with a quiz and a candidate-matching algorithm.
- **CA District winner** of nationwide Congressional App Challenge **(5,529 overall competitors)**.

INVOLVEMENTS

UCI Association for Computing Machinery   Oct 2020 - Present
- Learn and practice data structures and algorithms through coding problems at weekly meetings.

High School Math Tutor   Oct 2018 - May 2019
- Tutored math classes (up to Calculus) for **2** teachers; reviewed problems and taught concepts weekly.