

Tristan Ha

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EDUCATION

University of California, Irvine

Oct 2020 - Jun 2023

Bachelor of Science, Computer Science

- Selected Coursework: Advanced Python Programming, Boolean Algebra & Discrete Structures.

Granada Hills Charter High

Aug 2016 - Jun 2020

Valedictorian | GPA: **4.439** (*Gold Honor Roll*)

- AP Computer Science A (4), AP Calculus BC (5), AP Physics C (5), **Basic Data Structures & Algorithms.**

WORK EXPERIENCE

US Forest Service - Remote Programming Intern

Sep 2020 - Present

- Will automate database entry using Python and SQL to inform forest management decisions.

SKILLS

Programming Languages: Python, Java, JavaScript, HTML, CSS, SQL

Technologies: Git Bash, GitHub, Arduino, PyGame, Atom

PROJECTS (available at github.com/TristanHaHa)

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](#)

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

- Learn and practice data structures and algorithms through coding problems at weekly meetings.

High School Math Tutor

- Tutored math classes (up to Calculus) for **2** teachers; reviewed problems and taught concepts weekly.

Vietnamese Eucharistic Youth Movement

- Teach weekly classes of **15+** children and lead leadership camps of **40+** people as assistant counselor.

AWARDS

National AP Scholar (2020): averaged a score of **4.5** (out of 5) on **12** College Board AP Exams

Excellence in **Computer Science**, Math, Visual/Performing Arts (2020): nominated by **3** teachers