

# Tristan Ha

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## EDUCATION

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### 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

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### US Forest Service - Remote Programming Intern

Sep 2020 - Present

- Automate database entry using Python and SQL to inform land and forest management decisions.

## SKILLS

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

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

## PROJECTS (available at [github.com/TristanHaHa](https://github.com/TristanHaHa))

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### 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

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### 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

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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