**Aaron Wang**

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**EDUCATION**

**University of Notre Dame** | Notre Dame, IN (Expected) May 2027

*B.S.* *Computer Science| Applied Computational Mathematics and Statistics GPA: 3.95*

CS Course work: Data Structures, Logic Design, Systems Programming, Discrete Math, Theory of Computing\*, Computer Architecture\*, and Programming Paradigms\*

Online Couse work: Harvard CS50, UDEMY Complete JavaScript, and UDEMY React Guide\*

Math Coursework: Linear Algebra, Calculus I-III, Probability, Statistical Methods\* and Differential Equations\* (\* current)

**EXPERIENCE**

**University of Notre Dame** | Notre Dame, IN September 2024 – Current

*Teacher’s Assistant* | Discrete Math Fall 2024, Data Structures Spring 2025

* Hosting office hours weekly to further explain concepts and supplement in-class lectures
* Creating and grading problem sets with detailed feedback for 80+ students every week

**iGoStem Academy** | Belle Mead, NJ (Summer) June 2022 – August 2023

*Teacher*

* Taught a class of ~15 kids STEM related activities, including how to solve a Rubik’s cube, animation, and engineering
* Created lesson plans for children who could not yet read or write

**PROJECTS**

**TangoBot** |[**GitHub**](https://github.com/Elliotkim2/TangoBot)**Next.js, TypeScript, MongoDB, Python Playwright, YAML, GitHub Actions**

* Working with a partner to deploy a dynamic website using Next.js, showcasing solutions for every Tango game
* Designing and implementing an automated web scraper to extract content from the Daily Tango game, solve it, and upload the data to a MongoDB database

**Go-Stop** |[**GitHub**](https://github.com/aaronrwang/HwaTu.git)**Node.js, Express.js, Socket.io, Rest APIs, React**

* Developed a Full Stack WebApp that allows users to play the traditional Korean Go-Stop card game with friends and strangers in real-time
* Programmed a game in JavaScript, leveraging object-oriented programming principles and creating an engaging user interface with React

**CCSND Website** | [**GitHub**](https://github.com/ccsofnd/ccswebsite) **React, HTML, JS, CSS**

* Collaborating with University Chinese Cultural Society to design a website that offers relevant information about the club for current and prospective members

**LEADERSHIP AND ACTIVITIES**

**CS For Good** | Notre Dame, IN | [**GitHub**](https://github.com/Riverbend-CS4Good/turtle) September 2024 - Current

* Developing Web Applications for the Riverbend Community Math Center
* Creating an interactive explorer for Mandelbrot and Juliet Sets to allow users to visualize complex math concepts
* Guiding students through robotics with assistance in creating Python scripts to program a Micro:bit

**Delbarton Peer Tutor** | Morristown, NJ September 2021 – May 2023

*Peer Leader / Tutor*

* Co-ordinated appointments for school of 600+ students and 30+ tutors
* Tutored 20+ peers over 2 years in Algebra, Geometry, and Calculus

**HONORS**

Notre Dame Dean’s ListFall 2023 and Spring 2024

USACO Silver DivisionJan 2022

Bausch & Lomb Honorary Science Award2022

**TECHNICAL AND LANGUAGE SKILLS**

**Technical:** Java, C, C++, Swift, Python, JS, TS, CSS, HTML, React, Node.js, Express.js, Next.js, SQL, MongoDB, Playwright

**Languages:** English, Mandarin (conversational)