

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

EXPERIENCE

University of Notre Dame | *Research Assistant* | Web3DB Project February 2025 – Current

- Analyzed and researched relational databases, specifically PostgreSQL and MySQL, to design and implement efficient indexing within the Web3DB Project

University of Notre Dame | *Teacher's Assistant* | Discrete Math & Data Structures September 2024 – Current

- Hosted weekly office hours to clarify concepts and supplement lectures, resulting in improved student understanding
- Created and graded problem sets with detailed feedback for 80+ students weekly to enhance their problem-solving skills and course performance

iGoStem Academy | *Teacher* (Summer) June 2022 – August 2023

- Taught a class of approximately 15 kids STEM-related activities, including solving a Rubik's cube, animation, and engineering, leading to increased engagement and understanding of STEM concepts
- Developed lesson plans for children who could not yet read or write, resulting in improved comprehension and participation in class activities

PROJECTS

Bible Journal App | In progress Flutter, Supabase, SQL

- Creating an app with Flutter that encourages users to deepen their study, reflection, and prayer life
- Implementing Supabase to manage user authentication and data storage

TangoBot | [GitHub](#) 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](#) 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

LEADERSHIP AND ACTIVITIES

CS For Good | Notre Dame, IN | [GitHub](#) September 2024 - Current

- Collaborated with a team to develop web applications for the Riverbend Community Math Center.
- Created an online keyboard and frequency analyzer to help students explore sound waves.
- Designed and implemented a Turtle web app to teach elementary students coding fundamentals, gaining hands-on experience with compilers and programming logic.

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 List Fall 2023, 2024 and Spring 2024
USACO Silver Division 2022
Bausch & Lomb Honorary Science Award 2022

TECHNICAL AND LANGUAGE SKILLS

Technical: Java, C, C++, Python, JS, React, Node.js, Next.js, SQL, MongoDB, REST APIs, Flutter
Languages: English, Mandarin (conversational)