

# 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 Intern* | [Web3DB](#) February 2025 – Current

- Analyzed and researched relational databases, specifically **PostgreSQL** and **MySQL**, to design and implement efficient indexing within the Web3DB Project
- Utilized **Docker** and **Apache Spark** for scalable testing across multiple worker nodes

**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 ~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

## PERSONAL PROJECTS

**Bible Journal App** | [GitHub](#) **Flutter, Supabase, PostgreSQL, RESTful APIs**

- Developing a cross-platform mobile app with **Flutter** to enhance Bible study, reflection, and prayer journaling
- Implementing seamless data retrieval and storage using **Supabase, PostgreSQL** and **RESTful APIs**

**TangoBot** | [GitHub](#) **Next.js, TypeScript, MongoDB, Python**

- Worked with a partner to deploy a dynamic website using **Next.js**, showcasing solutions for every Tango game
- Designed and implemented 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, React**

- Developed a Full Stack WebApp to play the traditional Korean Go-Stop card game with friends and strangers
- 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

- Designed and implemented a Turtle web app using a lexer, parser, and interpreter to execute movement, control flow, and drawing commands
- Created an interactive learning tool to teach elementary students coding fundamentals, making programming concepts more accessible and engaging

**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:** Python, JS/TS, Java, C, C++, React, Node.js, Next.js, SQL, MongoDB, Flutter, Docker

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