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, Programming Paradigms, Operating Systems*, Computer Networks*, Compilers*, and Theory of Programming Languages*
Math Coursework: Linear Algebra, Calculus I-III, Probability, Statistics, Differential Equations, and Time Series Analysis*   (* current)

EXPERIENCE

Bausch + Lomb | *IT Intern* |Bridgewater, NJ   June 2025 – August 2025
- Designed and improved **chatbots** to help employees navigate and understand policies and resources efficiently
- Built **Power Automate** flows incorporating **prompt engineering** to expedite document processing
- Automated form submission and tracking processes to significantly expedite internal workflows

University of Notre Dame | *Research Intern* | **Web3DB**   February 2025 – May 2025
- 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 – May 2025
- 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 unique lessons for children unable to read/write, leading to improved comprehension and participation

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 LinkedIn Tango
- 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 OOP 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 | *Peer Leader / Tutor*   September 2021 – May 2023
- Co-ordinated appointments for school of 600+ students and 30+ tutors
- Tutored 20+ peers over 2 years in Algebra, Geometry, and Calculus

HONORS

University of Notre Dame Hackathon 2nd Place   April 2025
Notre Dame Dean's List   Fall 2023 – Spring 2025
USACO Silver Division, and Bausch & Lomb Honorary Science Award   2022

TECHNICAL SKILLS

Technical: Python, JS/TS, Java, C, C++, React, Node, Next, SQL, MongoDB, Flutter, Docker, Microsoft Power Platform