

Herbert Wang

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EDUCATION

Duke University, Trinity College of Arts and Sciences

Durham, NC

Bachelor of Science in Math and Computer Science; GPA: 3.95/4.00

May 2024

- **Honors:** Angier B. Duke Scholar: a merit-based, full-ride scholarship awarded to 11 intellectually curious students
- **Courses:** Data Structures and Algorithms, Linear Algebra, Probability, Multivariable Calculus, Computer Architecture, Economics, Design and Analysis of Algorithms, Abstract Algebra, Topological Data Analysis

College of DuPage Culinary School

Glen Ellyn, IL

Associate of Applied Science in Culinary Arts

August 2021

- **Courses:** Introduction to Culinary Arts, Sanitation, Culinary and Baking Nutrition, Culinary Measurements and Conversion

Hinsdale Central High School

Hinsdale, IL

Diploma of Excellence; ACT: 35; GPA: 5.96/6.00

June 2020

- **Honors:** Regeneron Top 300 Scholars (1 of 2 from Illinois), Statewide Illinois Association of Teachers of English: Prose Winner “Eye of the Tiger”, Continental Math League Calculus League First Place, Seal of Biliteracy for Spanish and Chinese

WORK EXPERIENCE

Wavicle Data Solutions

Chicago, IL

Data-Engineering Intern

July 2021 – August 2021

- Developed scalable cloud data processing program using AWS S3, Lambda, Cloud Watch, QLDB, Glue, SNS and RDS that inserts 128 kB files into an immutable ledger and outputs formatted CSV data with proper schema
- Investigated directed acyclic graphs and parallelization to handle big data through Pandas, PySpark, and Dask

University of Chicago

Chicago, IL

NSF-Funded Paid Research Intern

July 2018 – January 2020

- Authored a paper: Self-dispersion of Two Natural Polysaccharides for Granular Composites (<https://arxiv.org/abs/2001.00039>)
 - Used material analysis skills like tensile tests, SAXS, cryo-SEM, FTIR, X-Ray Phase Contrast Imaging to characterize a unique solid-state dispersion that creates a chemically stronger and a more stable composite material
- Primary contributor of patent (EFS ID: 38158898): Biodegradable Composition and Method of Preparation Thereof
 - Engineered an inexpensive, biodegradable material with a potential use in food packaging that reduces plastic waste, provides microbial defense, and sustains external impact

EXTRACURRICULAR EXPERIENCE

The Black Tile

Durham, NC

Sous Chef for a pop-up dinner club at Duke

September 2021 – present

- Conceptualized and executed 4 different 4-course tasting menus for 24 guests and raised over \$300 for local food banks in NC

Scouts of America BSA

Hinsdale, IL

Eagle Scout, Patrol Leader and Outdoor Ethics Guide

October 2013 – August 2020

- Designed a 3D-printed iPad-fitted microscope and executed a workshop for 15 fifth graders at Elm School for an Eagle Project
- Guided a troop with 40 scouts with a conservation-minded focus as the outdoor ethics guide and patrol leader

Executive Board of Student Council

Hinsdale, IL

Secretary, Spirit Subcommittee

August 2018 – June 2020

- Raised \$20,000 through tournaments, eating competitions, and other activities for the class prom fund
- Created a joint campaign by organizing a social media presence and got elected from the student body
- Organized cheerleaders, band, and games at pep assemblies and rallies for 2700 students

Varsity Gymnastics

Hinsdale, IL

Captain

February 2017 – April 2020

- Implemented disciplined workouts to increase team bonding and challenge the team of 30 boys to improve
- Awarded the Junior Most Valuable Gymnast Award (2018) and Most Improved Gymnast Award (2017)

D86 Referendum Cooking Competition Fundraiser

Hinsdale, IL

MC, Host, and Coordinator

March 2019

- Hosted a cooking competition to raise money for the D86 Vote Yes campaign for the school's \$140 million-dollar referendum
- Amassed donations from over 10 local businesses, garnered 300 participants and raised \$6,000

LANGUAGES FRAMEWORKS AND INTERESTS

Languages: Java, Python (proficient), C, HTML, CSS (intermediate)

Frameworks: React, NodeJS, PySpark, AWS, ImageJ, OriginLab, Figma

Interests: Pan-Asian fusion cooking, Texas Hold'em, nutrition and holistic living, personal fitness