

# Herbert Wang

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## EDUCATION

### Duke University, Trinity College of Arts and Sciences

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

Durham, NC

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

*Associate of Applied Science in Culinary Arts*

Glen Ellyn, IL

August 2021

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

### Hinsdale Central High School

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

Hinsdale, IL

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 Tie

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