

# Henry Weng

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## EDUCATION

### Stanford University

Exp. Graduation: June 2024

- **B.S. Computer Science, Economics, GPA:** 4.0
- **Coursework:** Programming Abstractions, Mathematical Foundations of Computing, Computer Systems (Winter '21)

### Saratoga High School, dual enrolled at San Jose State University

- **GPA:** 4.0, **SAT:** 1600
- **Coursework:** Data Structures, AP CS, Discrete Math, Linear Algebra, Multivariable Calc, Differential Equations, AP Statistics

## WORK EXPERIENCE

### Undergraduate Researcher | Stanford University

June 2021 - Present

- Advised by David Mazières in the Secure Computer Systems group; building Karl, a framework enhancing IoT device security
- Revamped node rendering on the Karl UI web application, built and deployed official [Karl website](#) on Stanford domain
- Implemented RAPPOR-based differential privacy module using Rust to allow users to anonymize their statistics

### Research Intern | The Wharton School

June 2020 - Sept 2020

- Scraped and cleaned gigabytes of M&A data from the SEC using Selenium, NumPy, and pandas Python libraries
- Constructed multiple regression model optimizing taxation on entrepreneurs using the statsmodels Python library
- Worked under Boettner Chair Professor Kent Smetters; helped onboard incoming research assistant

### Student Leader Intern | Bank of America

June 2020 - July 2020

- Launched aggregated database used by 200+ users to manage LifeMoves's 13 homeless shelter branches
- Collaborated with Bank of America Market President to allocate \$400,000 in Neighborhood Builders grants
- Work was featured in the [San Jose Mercury News](#)

## PROJECTS

- **Refood:** Web-app (React/Firebase) that allows grocers to host events reselling imperfect food to value-conscious consumers
- **AllerSight:** Built Flutter app to detect user-inputted allergens on a food ingredient labels using Google ML Kit
- **ZipScan:** Worked with school district to build Flutter app for signing students into classes and clubs by scanning a QR code

## SKILLS

- **Languages:** Java, Python, JavaScript
- **Technologies:** React JS, Firebase, Selenium, NumPy, BeautifulSoup, statsmodels, pandas

## LEADERSHIP

### Co-founder and Chairman | Youth Economics Initiative ([theyei.org](http://theyei.org))

Mar 2019 - Present

- 501(c)(3) nonprofit providing pathways for aspiring economists; largest coalition of economics clubs in the world
- Lead and manage 45+ staff, clubs in 60+ schools, and 2,500+ active members
- Organize some of the [largest international economics competitions and events](#) with over 1,200 total attendees
- Partnered with Bank of America to develop the FLIP program providing free financial literacy resources to underserved youth
- Work with advisory board consisting of Dean Emeritus of Columbia Business School, Exec. Director of FTE, and NYU faculty

### Founder and President | DeltaX Academy

Mar 2018 - June 2021

- 501(c)(3) nonprofit that raises money teaching computer science classes and uses the funds to organize volunteer projects
- Led and trained team of 21 volunteers to teach 15 classes with 250+ total students, ultimately raising over \$13,000
- Partnered with the Boys and Girls Club to teach free year-long computer science course for 30 underserved youth
- Co-Executive Director of DeltaX Hacks; led team of 10 people to organize a two-day hackathon; raised over \$25,000 in sponsorship funding; organized 4 workshops featuring entrepreneurs and industry leaders
- Donated and distributed 48 laptops to youth who lacked the technology to access online education during pandemic

### Team Captain | TSA TEAMS Engineering Competition

Aug 2018 - April 2020

- Organized practices for 7-person team teaching engineering principles; led team to place 6th in CA and qualify for Nationals

## AWARDS & HONORS

- USA Computing Olympiad Gold
- 3x Hackathon Winner
- USA Physics Olympiad Semifinalist
- Eagle Scout