

Henry Weng

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EDUCATION

Stanford University

Jun 2024

Bachelor of Science, Computer Science & Economics; GPA: 4.09/4.0

- **Coursework:** Data Structures & Algorithms, Computer Systems, Market Design, Microeconomic Analysis, Discrete Math and Complexity Theory, Probability for Computing, Applied Matrix Theory, Design for Accessibility

EXPERIENCE

Software Engineer Intern @ Dover (YC S19)

Jun 2022 - Aug 2022

- Owned the advanced filtering & candidate insights product: interviewed key stakeholders, defined product vision, and partnered with designers and engineers to launch the product; **18% increase in monthly active users**
- Built API endpoints for data ingestion/enrichment of **100M candidate profiles** using Django REST Framework
- Developed automations for customer onboarding and candidate management flows using Slack's Python API

Founder @ Pairology

Jan 2022 - Jun 2022

- Built a matchmaker for meaningful friendships used by **over 1000 students** (Next.js, Tailwind CSS, and Firebase)
- Led product from ideation to planning to release: understood and analyzed user needs and market trends through **50+ user interviews**, set key performance metrics, defined product strategy, and planned weekly sprints
- Developed novel compatibility prediction and matching algorithm that **10x'd Bumble BFF's** match-to-meetup ratio

Research Intern @ Stanford Future Data Systems Group

Jun 2021 - Dec 2021

- Contributed to Karl, an open-source framework for implementing differential privacy on IoT devices
- Developed a RAPPOR-based differential privacy module using Rust for private user data aggregation
- Implemented a node-ranking algorithm with TypeScript to revamp tree rendering in the Karl UI web application

LEADERSHIP

Build Session Director @ Friends and Family Founders

Jun 2022 - Present

- Organize and lead weekly mini-hackathons for entrepreneurs at Stanford joined by VCs & successful founders

Co-founder @ Youth Economics Initiative (theyei.org)

Mar 2019 - Present

- Founded and scaled the world's largest network of economics clubs to **80+ schools and 3500+ members**
- Organized EconBowl, the premier student-run economics competition with over **1200+ total participants**

Executive Director @ DeltaX Hackathon

Jun 2020 - Dec 2020

- Led the organization, planning, and execution of a **150-person** hackathon with over **\$25,000 in prizes**

PROJECTS

Satellite Income Mapping | Python, PyTorch, pandas

- Implemented a computer vision model to predict the geographic distribution of income given a satellite image
- Corresponding paper was selected as the **best report of all Stanford MLab projects for Fall 2021**

Heap Allocator | C

- Built and designed explicit and implicit heap allocators with alloc, free, and realloc functionality

Refood | React, Firebase, JavaScript

- Designed and developed a web app that allows grocery stores to host events selling imperfect foods to value conscious consumers. **Best web application** in a hackathon with **over 300 participants**

ZipScan | Flutter, Firebase, Dart

- Developed a Flutter app to track attendance using QR codes for my high school district, **saving 1000 hours/year**

SKILLS

Technical: Python, C++, JavaScript, TypeScript, Java, React, Tailwind CSS, Django REST Framework

Other: Project Management, User Interviews, Communication, Market Research, Data Analysis

AWARDS & HONORS

- US Computing Olympiad Gold
- US Physics Olympiad Semifinalist
- Three-time Hackathon Winner
- National Merit Scholar
- Coca-Cola Scholar Finalist
- Eagle Scout