

# Meng-Han (Ethan) Wu

Berkeley, CA | (+1) 650-680-5537 | emhw.0930@berkeley.edu | <https://www.linkedin.com/in/meng-han-ethan-wu>

## EDUCATION

### University of California, Berkeley

Berkeley, CA

B.A. in Computer Science

Aug. 2021- May 2025

GPA: 3.8/4.00 | Dean's List | Relevant Coursework: Data Structures, Structure & Interpretation of Computer Programs, Machine Structure, Discrete Math, Probability & Statistics, Effective Algorithm, Artificial Intelligence, Data Science

## PROFESSIONAL EXPERIENCES

### Genuine Parts Company

Atlanta, GA

Software Engineer Intern

May 2024 - Aug. 2024

- Incoming Summer Intern

### UC Berkeley Department of Data Science

Berkeley, CA

Course Staff Tutor for CS 88: Computational Structures in Data Science

Feb. 2024 – Present

- Guide 30+ students during weekly lab sections focusing on Python / SQL concepts in the discussion worksheets
- Hold office hours to guide students on weekly labs, homework, and projects questions for 3 hours per week
- Host midterm in-person review section on iteration, recursion, trees, OOPS, and higher order function concepts

### GIS Research Center, Feng Chia University

Taichung, Taiwan

Easy Map Corporate, Computer Vision Software Engineer Intern

Jun. 2023 - July 2023

- Utilized YoloV5, OpenCV2, and PyTorch to establish pretrained object detection model with custom deer images
- Preformed background subtraction model to detect Sambar Deer's activity through CCTV for local animal farm
- Used RoboFlow and other Objects Labeling Tools to label and augment custom images for object detection

## LEADERSHIP & EXTRACURRICULARS

### Computer Science Mentors Club

Berkeley, CA

Junior Mentor, Senior Content Mentor for CS 88

Sept. 2023 - Present

- Use Overleaf and LaTeX to write practice exam problems for weekly worksheet to build students' foundation
- Hold weekly teaching sessions on computational structure concepts using Python / SQL for CS88 students
- Make walkthrough videos to assist students on problem solving skills for midterms and final preparation

### Arruda Lab Research Program

Berkeley, CA

Research Assistant: CNN Model for Segmenting Electron Microscopy Images

Sept. 2023 – Jan. 2023

- Apply deep learning-based methods (CNN model) to segment organelles (mitochondria and ER) from images
- Verify and examine the success rate of the models in weekly meeting with the Prof. Gunes Parlakgul

### Data Science Discovery Research Program

Berkeley, CA

Research Intern for Graph Neural Network of Metamaterials

Sept. 2023 – Jan. 2023

- Train inverse graph-based machine learning models using different hyperparameters for response prediction
- Discuss the result of the accuracy of the model in weekly meeting and continue improving the model's accuracy

### DataGood Club

Berkeley, CA

Internal Project Developer, Internal Committee Member

Aug. 2022 - Dec 2022

- Implemented linear regression model to analyze the relationship between unemployment rate and economic output
- Re-established U.S. Okun's equation to predict U.S.'s GDP using Matplotlib, Seaborn, Pandas, and NumPy library

## PROJECTS

Mini World: Built a 2D game using Java where the characters can move in the world with save/load games function

## SKILLS & INTERESTS

**Languages & Frameworks:** Python, NumPy, Pandas, Seaborn, Matplotlib, Java, HTML/CSS, JavaScript, Git, C

**Skills:** Mandarin (Native), Padi Diving Open Water Certification, CPR Certification, Microsoft Suite, Google Suite