

Weihong Cen

Highly motivated student seeking practical experience

15 Gentle Breeze, Newport Coast, CA 92657

(949) 228-7681 21cenweihong@gmail.com

linkedin.com/in/weihong-cen

Education

California Institute of Technology, Pasadena, CA

Sep 2021 – Present

Major: Computer Science

GPA: 3.5/4.0

Relevant Coursework: Networks, Relational Databases, Machine Learning & Data Mining, Learning Systems, Compilers, Web Development, Algorithms, Computing Systems, Software Design

Experience

Airstrafe Interactive — Software Engineer Intern

Jun 2023 – Sep 2023

- Reduced game memory usage by over 50%
- Pushed the game to the Mac platform by establishing a new build pipeline
- Developed a bot that enables remote build management

NASA Jet Propulsion Laboratory — Intern

Jun 2022 – Aug 2022

- Examined temperature anomaly trends by region
- Performed parameter analysis on climate models
- Collaborated with other researchers to compare data from CMIP6 climate models

NASA Jet Propulsion Laboratory — Intern

Jun 2021 – Sep 2021

- Studied the effects that Covid-19 lockdown policies had on air quality
- Examined how business shutdowns and stay-at-home orders correlate to pollution levels
- Compared countries' pandemic response intensity to air quality trends

NASA Jet Propulsion Laboratory — Intern

Jun 2020 – Sep 2020

- Researched method for deriving exoplanet rotational period from low-resolution observations
- Performed time-series analysis on spectral data
- Extended study on the effects of atmospheric aerosols and vegetation on irradiance

AEC Renewable Urban Pioneers — President

Jun 2020 – Aug 2021

- Supervised a team of student volunteers to research and publish articles about deforestation
- Organize an information seminar with Rainforest Trust and Greenpeace International
- Raised funds for rainforest preservation through online T-shirt sales

SupplyCrate — Cofounder/Developer

May 2020 – Mar 2021

- Co-developed a website that managed 374,900 PPE donations for hospitals
- Donated 3,250 masks to BLM protest sites

Skills

- **Extensive Programming Experience:** Python, C, Java, C#, JavaScript, OCaml, MATLAB, R
- **Full Stack Web Development:** HTML, JavaScript, React, CSS, SQL
- **Game Development:** Unity game engine, Photon engine, Photoshop, music sequencer

Awards

President's Volunteer Service Award - Silver award, 2020

Facebook Developer Circles LA Hackathon - Junior Hacker 1st place, 2020

Developed an anonymous and secure site for reporting bullying using blockchain

Sage Hill Hackathon - Best Educational App, 2020

Developed a cross-platform app for improving hand-writing using AI-recognition