

# Weihong Cen

Highly motivated student with a desire to gain practical experience

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## Education

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**California Institute of Technology**, Pasadena, CA

**Sep 2021 – Present**

**Major:** Computer Science

**GPA:** 3.4/4.0

**Relevant Coursework:** Web Development, Algorithms, Computing Systems, Software Design, Decidability and Tractability

## Experience

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**NASA Jet Propulsion Laboratory — Intern**

**Jun 2022 – Sep 2022**

- Examined temperature anomaly trends by region
- Investigated the relationship between climate models' surface temperature and their input parameters, such as shortwave/longwave flux and atmospheric water/carbon dioxide content
- 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 using Python
- Extended study on the effects of atmospheric aerosols and vegetation on irradiance
- Presented findings in seminar and wrote paper on research results

**AEC Renewable Urban Pioneers — President**

**Jun 2020 – Aug 2021**

- Supervised a team of student volunteers to research and publish articles about deforestation
- Collaborated with environmental organizations like Rainforest Trust and Greenpeace International to organize an information seminar
- Raised awareness and funds to further rainforest preservation

**SupplyCrate — Cofounder/Developer**

**Jun 2020 – Aug 2021**

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

## Skills

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- **Extensive Programming Experience:** Python, Java, C, OCaml, C#, JavaScript, MATLAB
- **Experienced with Full Stack Web Development**
- **Game Development:** Unity game engine, Photon engine, photoshop, music sequencer
- **Capable of Using 3D CAD Softwares:** Blender, Onshape

## Awards

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**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