

# Owen Xu

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## Education

### Carleton College, Northfield, MN

Aug 2023 - present

- Bachelor of Arts in Computer Science and Psychology (4.0 GPA)
- Relevant coursework: AP Computer Science A, Mathematics of Computer Science, Programming Abstractions
- Dean's List (2023-2024): awarded to students in the top 10 percent of the class

## Skills

**Software:** Excel, Adobe Premier, Canva

**Programming Languages:** Python, Matlab, Arduino, C++, Java, Latex

**Language:** Fluency in Chinese and English

## Work Experience

### Data Analyst Intern, PureGlobal, Guangzhou, China

June 2024 - Aug 2024

- Programmed web crawlers to collect governmental regulations in the U.S. and Philippines and stored by Azure.
- Implemented a program to analyze the accuracy of 2300 translated medical terms.
- Built and trained a text classification model to identify if online articles were related to medical devices.
- Collected and organized the number of medical device exports from China to the EU by ElasticSearch.

## Research Experience

### Researcher, Virtual Generative Adversarial Networks (GAN) Research

Jun 2020 - Aug 2021

- Paper accepted by The First International Conference on Machine Learning, Big Data, and Business Intelligence.
- Surveyed the advantages and limitations of a wide range of typical improved GAN models.
- Investigated the theory and framework of GANs and identified potential challenges.

### Researcher, Allen and Irene Salisbury Fellowship Oral History Research, Fuzhou, China

June 2024 - present

- Organized discussions and meetings to draft proposals and received a fellowship for each of the three members.
- Coordinated schedules with interviewees and interviewed 12 immigrants from a village in Fuzhou to the U.S.
- Conducted qualitative analysis using interview transcripts to reveal key shaping factors of immigrants' identity.
- Preparing a bring-back presentation to showcase the findings to interested students and faculties on campus.

## Independent Projects

### Solar Battery System | Matlab

Sep 2021 - Nov 2021

- Finalist in the High School Mathematical Contest in Modeling.
- Designed a computing program that produced the optimal type and number of solar batteries to power a house.
- Researched storage capacity, battery life, battery chemical type, and recent charging technology.

### Online English to Chinese Translation | Python

Jan 2019 - Jun 2019

- Built a translation application that translates English into Chinese.
- Designed functionality such that users can change between different themes, turn on/off the auto-pronunciation, and receive their vocabulary list via email.

### Rainbow Lamp | Arduino

Jan 2019 - Feb 2019

- Built an LED lamp structure from cardboard, plastic rod, and translucent paper.
- Designed lamp to emit many colors with different static, flowing, and strobe patterns.

### Movie Information Collector | Python

Jan 2019 - Feb 2019

- Designed a program that collects ticket information from movie theatres.
- Implemented functionality that aggregated reviews from a secondary source website.