

# Andrew Y. Chen

Pittsburgh, PA • (267) – 810 – 3426 • [ayc23@pitt.edu](mailto:ayc23@pitt.edu) • US citizen

---

## Education

### University of Pittsburgh – Pittsburgh

2022 – 2026

Bachelor in Computer Science

*Discrete Structures in Computer Science, Data Structures & Algorithms I and II, Formal Methods in Computer Science, Computer Organization & Assembly Language, Introduction to Systems Software, Introduction to Operating Systems*

---

## Experience

### Undergraduate Teaching Assistant

2023

*Introduction to Computing for Scientists*

- Led labs where I reviewed class concepts, introduced projects, and addressed questions
- Held office hours on a weekly basis to provide personalized assistance to students
- Met weekly with the professor to best accommodate class needs

---

## Research

### Investigation of the Genes Involved in the Outbreaks of *Escherichia coli* and *Salmonella enterica* in the US. Antibiotics

*Dr. Zuyi Huang at Villanova University,*

2021

- Analyzed datasets of *E. Coli* & *Salmonella* using R to investigate genes of potential value
- Results have been published in the scientific journal “Antibiotics” (4.6 impact factor)
- <https://doi.org/10.3390/antibiotics10101274>

---

## Awards & Honors

### Pitt Challenge – Hackathon

2023

*Winner of the healthcare track*

- Created a Python application that processes images of prescription bottles and inform the user of their legitimacy

---

## Projects

### Autocompleting Search Engine

2024

- Multipurpose search engine application with autocorrection & autocompletion functionality, enabling more effective searching

### Image Segmentation

2024

- Image Processing application that divides, or segments, an image into K colors while retaining the original defining features

---

## Technical Skills

**Programming:** *Java, Python, C, C++, Rust, HTML, JavaScript, CSS, R*

**Techniques:** *Machine Learning, Bitmap manipulation, String Searching & Parsing*

**Tools:** *PowerPoint, Word, TEX, Shell, Linux, Git, GitHub*

**Languages:** *English (Native), Mandarin (Native)*