

# Alexander Kim

5901 Highland Drive, Palatine, IL

Mobile: (224)-509-1772 | [alexk747air@gmail.com](mailto:alexk747air@gmail.com)

## Education

**University of Illinois Urbana-Champaign**, Urbana-Champaign, IL (2024-2028)

Chemistry and Molecular/Cellular Biology

**William Fremd High School**, Palatine, IL (2020-2024)

GPA: Weighted: 5.195 / Unweighted: 4.0

## Experience

**ResearchStart 2024 Cohort at Northwestern Feinberg School of Medicine (Jun. 2024 - Aug. 2024)**

- Working with Drs. Walunas and Tran as part of the Center for Health Information Partnerships (CHIP)

**Cambridge Center for International Research (Jun. 2023 - Sep. 2023)**

- Worked with Dr. Begüm Akman-Tuncer and Dr. Taner Tuncer to bioinformatically analyze the *CDH1* gene and its corresponding protein E-cadherin in breast carcinoma

**Northwestern Medicine Discovery Program (Nov. 2022 - Jun. 2023)**

- Trained with healthcare professionals at Northwestern Medicine Lake Forest Hospital through hands-on projects (anatomy/catheter labs, interactive panels) to prepare for clinical medicine careers

**Seattle Children's Hospital Virtual Research Training Program, *biomedical research* (August 2022)**

- Investigated topics in biochemistry, immunology, and infectious diseases with researchers from the University of Washington through daily lab demonstrations (q-PCR, ELISA, Ficoll separation)

**Chicago Youth Symphony Orchestra (CYSO) (2018-Present)**

*Principal violinist in CYSO Symphony Orchestra*

- Principal for international Europe tour (Germany, Czech Republic, Austria, 2022)
- Performed in world premieres of Bernard Rand's AURA (2022), Clarice Assad's Trumpet Concerto (2022), and at Midwest Clinic 2022
- Selected with a stipend to record for *Good Night, Oscar*
- Chosen as first violinist in CYSO's CORE (Classical Orchestra Repertoire Ensemble) made up of select members of Symphony Orchestra (2021-Present)

**PagesForPatients Initiative (2022-Present)**

*Founder*

- Founded an initiative that donated over 1000 magazines total to nursing floors and main/ER waiting rooms at Ascension Alexian Brothers Medical Center, Ascension Saint Alexius Medical Center, Northwestern Medicine Lake Forest Hospital, and Northwestern Medicine Grayslake Outpatient Center
- Worked with school librarians, the National Honor Society (NHS) local chapter, and the Modern Music Masters Honor Society (Tri-M) local chapter to set up donation bins and open volunteer opportunities for high schoolers

## **Volunteer**

### **Emergency Department, Ascension Alexian Brothers Medical Center (2022-Present)**

- Created an Emergency Department supply room spreadsheet to coordinate locations and quantities of medical stock items, worked with the volunteer coordinator to inform staff and train newer volunteers
- Performed violin for incoming patients, family members, and medical personnel
- Managed resources on IV carts and in patient rooms, coordinated calls between emergency and waiting rooms, guided patients/family members, assisted nursing staff in providing care

## **Honors/Awards**

**United States National Chemistry Olympiad Finalist (2023)**

**American Invitational Mathematics Examination Qualifier (2023)**

**National Ambassador Community Service Award (2023)**

**Mathworks Math Modeling (M3) Challenge Honors and \$1000 Scholarship Winner (Top 6%)**

**ILMEA (IL Music Education Association) All-State Honors Orchestra (2021-2022, 2022-2023, 2023-2024)**

## **Skills**

### **Computer languages/Data analysis**

Proficient in HTML, CSS, JavaScript, Java, Python (script and machine learning applications), SQL, LaTeX, Mathematica, R

### **Languages**

English (native language), proficient in Spanish and Korean

### **Wet lab techniques**

Titration (forward/back), chromatography (TLC/paper), distillation (fractional/complete), crystallization, reflux