

# Emma Koehler

Melbourne Beach, FL

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## EDUCATION

### Long Island University - Brooklyn

Honors BS in Computer Science

Brooklyn, NY

Expected Graduation May 2025

- Honors Society Secretary | AI Club Secretary
- **GPA:** 3.89/4.0

## EXPERIENCE & LEADERSHIP

### University of Illinois Chicago College of Medicine

AI Research Assistant

Chicago, IL

May 2024-July 2024

- **Optimized** quality data inputs by 63% by annotating 7,000 individual components of healthy eyes in CVAT using the open-source CELEB Dataset, contributing to the development and validation of the first open-source Oculoplastic Specific Dataset. Link to paper: [ophthalmologyscience.org](https://ophthalmologyscience.org)
- **Developed & Trained** a segmentation pipeline using DeepLabV3 with a ResNet-101 backbone, contributing to robust Dice scores (.78 to .96) for key anatomical structures (brows, lids, scleras, irises, and caruncles) and enhancing the accuracy of ocular feature identification.
- **Fine-tuned** the model's ability to autonomously identify ocular features, improving its accuracy in supporting disease tracking and early detection in oculoplastics.

### Blue Fins & International School Bangkok

Swim Coach

Brooklyn/Bangkok

October 2020-Current

- **Lead & Oversee** swim lessons, ensuring safety, advising coaches, and managing equipment
- **Swim Coach** for ages 3-15 at Blue Fins
- **Coached** elementary students at International School Bangkok

### Disney's Vero Beach Resort

Recreation Cast Member

Vero Beach, FL

May 2023-August 2023

- **Lifeguard** for the resort pool as well as maintaining the pool and pool deck area
- **Interacted** with guests by fulfilling requests and answering questions
- **Entertained** guests with activities when the recreation areas were unavailable

### International School Bangkok Varsity Council

President

Bangkok, Thailand

August 2021-May 2022

- **Organized and led** events to raise school spirit
- **Advocated** for the needs of sports teams

### Community Liaison Office at the US Embassy

Intern

Bangkok, Thailand

July 2021

- **Planned and executed** Embassy social events
- **Created** content for newsletter and events

### General Service Office at the US Embassy

Intern

Bangkok, Thailand

July 2020

- **Worked** with the procurement team
- **Logged** invoices and worked on spreadsheets

## SKILLS, ACHIEVEMENTS & INTERESTS

**Achievements:** Honors student & Dean Scholar at Long Island University, DI Swimmer

**Languages:** Spanish (intermediate)

**Interests:** Cooking, Travel, Nail art, Crafting

**Skills:**

- Python, C++, Java, JavaScript, html, and css coding languages
- Proficient with Microsoft Office, Google, and Canva platforms
- Experience with MySQL and database management