

# Kevin Xiao

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## Education

### **University of Washington**

3.84 GPA | Majoring in Computer Science at the Paul G. Allen School

## Awards and Accomplishments

### **University of Washington Dean's List**

2023

### **AIME (American Invitational Mathematics Examination) Qualifier**

2021 & 2022

### **AMC 10/12 (American Mathematics Competition) Distinction**

2021

### **USACO (USA Computing Olympiad) Gold Division**

2022 – 2023

## Work Experience and Volunteering

### **International Children Education Association**

#### *Full-Stack Software Engineer*

June 2023-Present

- Built a web application that helps youth chess players around the world query games from all past online chess tournaments and learn tactics efficiently
- Designed web application architecture and created a database that stores chess events, games, and players

### **Pathway Foundation Mayoral Internship**

#### *Digital Platform Project Lead + Tutoring Project Lead*

2019 - 2023

- Led a team of 6 other interns in the design, creation, and maintenance of two public websites ([www.pathwayus.org](http://www.pathwayus.org) and [www.tutoring.pathwayus.org](http://www.tutoring.pathwayus.org)) for the foundation, serving hundreds of visitors a week
- Managed a free tutoring summer camp to fight educational inequality in summer 2022. Built a qualified tutoring team of 16 high schoolers, designed curricula, and helped 30+ underserved students in the Greater Seattle Area

**Software Skills:** Python, Java, C++, JavaScript, HTML/CSS, RESTful APIs, full-stack development, various APIs and libraries

## Computer Science Projects

### **Flyng**

October 2023

- Hackathon group project for DubHacks '23: <https://devpost.com/software/flyng-xeizai>
- Built a full-stack web application for meeting people at airports with cloud hosting and generative AI
- Created backend server with custom REST API that provides website with content via AviationStack and Google Generative AI APIs and our own Google Cloud MySQL database

### **ClinicChatBot**

July 2023-Present

- AI web chatbot based on a large language model that specializes in helping clinic website visitors
- Prototyped a backend to generate answers based on reviews and site-specific content without hallucination
- Designed frontend, deployed a testing version to a local acupuncture clinic, and provided accurate responses that could support the clinic with automation and minimized costs.

### **CipherBot**

2022

- Github Repository: <https://github.com/xckev/CipherBot>
- Data encryption Discord bot utilizing modern cryptography; deployed to 10+ servers, serving 500+ users
- Emulation of mix-networks and homomorphic encryption for secure voting, motivated by improving modern election integrity

## Certifications/Courses

### **Machine Learning**

2023

*Coursera by Andrew Ng, Stanford University*

### **Cryptography and Cryptocurrencies**

2022

*Stanford Pre-Collegiate Summer Institutes*

### **Cryptography I**

2022

*Coursera Course by Dan Boneh, Stanford University*