

Kevin Xiao

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Education

University of Washington (Class of 2027)

Majoring in Computer Science at the Paul G. Allen School

Awards and Accomplishments

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 and 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, Express/RESTful API, HTTP servers, various APIs and libraries

Computer Science Projects

Flyng

October 2023

- Hackathon group project for DubHacks '23: <https://devpost.com/software/flyng-xejzai>
- Built a full-stack web application for meeting people at airports with cloud hosting and generative AI
- Created backend server with custom RESTful 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>
- Open-source Discord bot that utilizes modern cryptography to encrypt messages and host secure polls
- 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