

Kevin Xiao

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Education

University of Washington (Class of 2027)

Majoring in Computer Science at the Paul G. Allen School

Bellevue High School (BHS) (Class of 2023)

GPA: 4.0/4.0 (unweighted)

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

Julie Kerr Memorial Math Prize (Top 2 AMC scores in BHS) 2022

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

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
- Bot deployed to over 10 servers, making CipherBot accessible to hundreds of users

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