KEVIN XIAO

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EDUCATION

University of Washington   Seattle, WA
BS Computer Science and Mathematics *GPA: 3.87*   Sep 2023 - June 2027

EXPERIENCE

Makeability Lab   Seattle, WA
Research Intern   June 2024 - Present

- Designed and built a full-stack iOS application that utilizes generative AI and computer vision to assist visually challenged parents in interacting with their children naturally

- Closely involved in the post-development research process and evaluating the effectiveness of generative AI for helping visually challenged parents

Pathway Foundation   Bellevue, WA
Digital Platform Project Lead + Tutoring Project Lead   Aug 2020 - May 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), serving hundreds of visitors a week

- Managed a free tutoring summer camp to fight educational inequality. Built a qualified tutoring team of 16 high schoolers, designed curricula, and helped 30+ underserved students in the Greater Seattle Area

International Children Education   Los Angeles, CA
Full-stack Software Engineer   June 2023 - Nov 2023

- Built a web application for youth chess players around the world learn tactics efficiently and query games from past online chess tournaments from all major chess websites like chess.com, lichess.org, and more

- Designed web application architecture and a database that stores 300k+ chess events, games, and players

PROJECTS

Flyng *AviationStack API, Google Generative AI API, Google Cloud MySQL Database*
https://devpost.com/software/flyng-xejzai
A Hackathon group project for DubHacks '23. 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 cloud database.

ClinicChatBot *Flask, OpenAI API, ChromaDB*   https://github.com/xckev/ClinicChatBot
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 *Discord.py API, Microsoft SEAL, Pyfhel SEAL wrapper, CoinMarketCap API*
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.

AWARDS

Dean's List   University of Washington
GPA of 3.5+ while taking 12 simultaneous credit-hours   2023-2024

AIME Qualifier   Mathematical Association of America
Scored in the top 5% of American Math Competition participants to qualify for the American Invitational Mathematics Examination.   2021 & 2022

AMC Distinction   Mathematical Association of America
Scored in the top 2.5% of American Math Competition participants.   2021

USACO Gold Division   USA Computing Olympiad
Achieved a perfect 1000/1000 in the USACO Open Contest, ranking 1st amonst 2449 silver division participants.   2022 - 2023

SKILLS

Programming Langauges:	Python, Java, C++, C, JavaScript, HTML/CSS, Dart, x86-64 Assembly
Software Development:	Project management, Full-stack applications, Math and Problem Solving