

KEVIN XIAO

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EDUCATION

University of Washington

BS Computer Science *GPA: 3.87*

Seattle, WA

University of Washington

BA Mathematics *GPA: 3.87*

EXPERIENCE

Makeability Lab

Research Intern

Seattle, WA

June 2024 - Present

- Designed and developed a full-stack iOS application with SwiftUI that utilizes GPT-4o multimodal capabilities and voice transcription models to supplement the interactions between blind or low-vision parents and their children's artwork
- Closely involved in the post-development user/pilot studies with mixed-vision-ability families and the paper writing process on Likert-scale evaluations for the effectiveness of generative AI in our use case

Pathway Foundation

Digital Platform and Tutoring Project Lead

Bellevue, WA

Aug 2020 - May 2023

- Led a team of 6 other interns in the design, creation, and maintenance of 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. Built a qualified tutoring team of 16 high schoolers, designed curricula, and helped 30+ underserved students in the Greater Seattle Area

International Children's Education Association

Fullstack Software Developer

Los Angeles, CA

June 2023 - Nov 2023

- Built a web application to help youth chess players around the world learn tactics efficiently and query games from all past online chess tournaments from chess.com, lichess.org, and more
- Worked with Node.js and designed scalable web SOA that includes a database that stores 300k+ chess events, games, and players

PROJECTS

Flyng AviationStack API, Google Generative AI

<https://devpost.com/software/flyng-xejzai>

A Hackathon group project for DubHacks '23. Built a full-stack web application in 24 hours for meeting people at airports powered by AI. Created backend flask server with custom RESTful API that provides website content via AviationStack and Google Generative AI APIs and our own cloud-hosted database.

ClinicChatBot Flask, OpenAI API, ChromaDB

<https://github.com/xkev/ClinicChatBot>

AI web chatbot based on a fine-tuned GPT-3.5-turbo 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, Microsoft SEAL, CoinMarketCap API

<https://github.com/xkev/CipherBot>

Data encryption Python 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

GPA of 3.5+ while taking 12 simultaneous credit-hours

University of Washington

2023-2024

AIME Qualifier & AMC Distinction

Scored in the top 2.5% of American Math Competition participants to qualify for the American Invitational Mathematics Examination.

Mathematical Association of America

2021 & 2022

USACO Gold Division

Achieved a perfect 1000 in the USACO Open, ranking 1st among 2449 silver division participants

USA Computing Olympiad

2022-2023

SKILLS

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