Kevin Xiao

Seattle, WA · xckevin@cs.washington.edu · 4255259964 · xckev.github.io

EDUCATION

University of Washington   Seattle, WA
BS Computer Science and BA Mathematics *GPA: 3.88*

EXPERIENCE

Makeability Lab   Seattle, WA
Research Intern   June 2024 - Present

- Successfully designed and developed a full-stack accessibility iOS application with SwiftUI that utilizes GPT-4o multimodal capabilities and voice transcription models to support the interaction between blind or low-vision parents and their children regarding artwork

- Application prototype is currently being used for user/pilot studies with real mixed-vision-ability families. Results are promising and feedback will be used for public deployment to the app store.

Pathway Foundation   Bellevue, WA
Project Lead of Digital Platform   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   Los Angeles, CA
Software Engineer Intern   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 React to design a scalable web application that uses a MongoDB database to store 300k+ chess events, games, and players

PROJECTS

Flyng: Hackathon Project *AviationStack, Google Gemini*   https://devpost.com/software/flyng-xejzai
A Hackathon group project for DubHacks '23. Built a functional full-stack social media web application powered by AI under extreme time pressure. Created 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/xckev/ClinicChatBot
AI web chatbot based on a fine-tuned GPT-3.5-turbo that specializes in helping clinic website visitors. Created custom backend API to generate answers without hallucination. Designed and deployed frontend to a local acupuncture clinic that proved to support the clinic with automation and minimized costs.

CipherBot *Discord.py, Microsoft SEAL, CoinMarketCap API*   https://github.com/xckev/CipherBot
Data encryption Python Discord bot; 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 & AMC Distinction   Mathematical Association of America
Scored in the top 2.5% of AMC participants to qualify for the AIME   2021 & 2022

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

SKILLS

Programming Langauges: Python, Java, C++, C, JavaScript, HTML/CSS, Dart, Swift, SQL, Assembly
Software Development: Data Structures, Algorithms, Object-Oriented Programming, Git, Fullstack

COURSES

Data Structures and Parallelism, Hardware/Software Interfaces, Foundations of Computing, Algorithms
Software Design & Implementation, Computer Security, Machine Learning, Cryptography, Software Tools