KEVIN XIAO

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

EDUCATION

University of Washington — Seattle, WA
BS Computer Science *GPA: 3.87*

University of Washington
BA Mathematics *GPA: 3.87*

EXPERIENCE

Makeability Lab — Seattle, WA
Research Intern — June 2024 - Present

- Designed and developed a full-stack iOS application 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 study with mixed-vision-ability families and paper writing process on Likert-scale evaluations for the effectiveness of generative AI in our use case

Pathway Foundation — Bellevue, WA
Digital Platform and Tutoring Project Lead — 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
Fullstack Software Developer — 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
- Designed web application architecture and created 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 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. 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/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 & AMC Distinction — Mathematical Association of America
Scored in the top 2.5% of American Math Competition participants to qualify for the American Invitational Mathematics Examination. — 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, Assembly
Software Development:	Project management, Full-stack applications, Math and Problem Solving