

# Kevin Xiao

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## EDUCATION

### University of Washington

Seattle, WA

*B.S. Computer Science & B.A. Mathematics | GPA: 3.90 | USACO Gold & AIME Qualifier June 2027*

**Coursework:** Data Structures, Algorithms, Artificial Intelligence, HW/SW Interfaces, Machine Learning, Software Design & Implementation, Computer Vision, Systems Programming, Software Tools, Discrete Math

## EXPERIENCE

### Software Development Engineer Intern

Jun 2025 – Present

*Amazon Web Services (AWS)*

*Seattle, WA*

- Amazon Connect Flows Team - GenAI Flow Editing - Summer 2025

### Undergraduate Researcher

Jun 2024 – March 2025

*Makeability Lab*

*Seattle, WA*

- Developed an accessible iOS app using SwiftUI, GPT-4 multimodal capabilities, and voice transcription models
- Deployed application for studies with real mixed-vision-ability families to evaluate usability and effectiveness
- Co-authored paper accepted by the IUI ACM conference and incorporated feedback for public deployment

### Software Subsystem Lead

Apr 2024 – Present

*Husky Satellite Lab*

*Seattle, WA*

- Managed a 15-person software team for HuskySat-2, a low-power deep-space research CubeSat, launching in 2027
- Researched and developed C++ star-id and attitude estimation algorithms for the lost-in-space star tracker

### Software Engineer Intern

Jun 2023 – Nov 2023

*Pathway Foundation*

*Bellevue, WA*

- Led a team of 6 interns in the designing, developing, and maintaining the digital platforms for Pathway Foundation
- Developed and launched [pathwayus.org](https://pathwayus.org) and [tutoring.pathwayus.org](https://tutoring.pathwayus.org), serving hundreds of visitors weekly

## PROJECTS

### Sussi | *Next.js, SwiftUI, MongoDB, Llama 4 API*

June 2025

- Placed 1st at Meta Llama 4 Seattle Hackathon, competing against 200+ top college and full-time competitors
- Developed a student laptop monitoring system to give teachers quick classroom insights and automation
- Built a Next.js teacher client and a SwiftUI MacOS student client that interface through MongoDB Atlas
- Integrated early-access Llama 4 Scout's multimodal, long-context, structured output, and tool-calling capabilities

### Triage | *Next.js, Flask, HTML/CSS, Perplexity AI, SAM 2, REST API, Git*

October 2024

- Placed first out of 1000+ participants at DubHacks '24, the largest hackathon in the Pacific Northwest
- Developed a disaster detection and assessment tool using satellite imagery to prioritize emergency response efforts
- Built with Next.js frontend, Python Flask backend, Intel Tiber hosting, and AWS CloudFormationStack

### ClinicChatBot | *Flask, OpenAI API, ChromaDB*

July 2023

- Fine-tuned GPT-3.5-turbo chatbot to specialize in helping clinic website visitors
- Created custom backend API using Retrieval Augmented Generation to reduce hallucination
- Designed and deployed frontend to a local acupuncture clinic to automate processes and minimize costs

### CipherBot | *Discord.py, Microsoft SEAL, CoinMarketCap API*

August 2022

- Discord bot with emulation of RSA, mix-networks, and homomorphic encryption deployed to over 500 users

## TECHNICAL SKILLS

**Languages:** Python, Java, C++, C, JavaScript, TypeScript, HTML/CSS, Swift, SQL, MQL, Assembly

**Frameworks:** Node.js, React.js, Next.js, Express.js, Flask, SwiftUI, Flutter, Bazel, FastAPI, JUnit

**Developer Tools:** Git, Linux, Amazon Web Services, Google Cloud Platform, Microsoft Azure, Docker, TSLint

**Concepts:** Machine Learning, Object-Oriented Programming, Web Frameworks, Databases, Full stack, Frontend, Backend, Cloud Computing, Cybersecurity, Parallel Programming, Statistics, Probability, Natural Language Processing