# 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, Numerical Analysis, Machine Learning, Software Design & Implementation, Computer Vision, Systems Programming, Software Tools, Discrete Math

## EXPERIENCE

**Amazon Web Services (AWS)**                                              Jun 2025 – Sept 2025
*Software Development Engineer Intern*                                              *Seattle, WA*
- Created a modular and extensible system design for **Amazon Connect's first agentic AI** flow editor assistant
- Shipped **12k+** LOC of MCP tools for **autonomous UI control** and secure context-retrieval with user credentials
- Achieved **95%+** code coverage with unit tests and **E2E** functionality verified by comprehensive integration tests
- Persuaded directors and VPs to adopt my design philosophy for future agentic efforts after pre-prod deployments

**Makeability Lab**                                                         Jun 2024 – March 2025
*Undergraduate Researcher*                                                          *Seattle, WA*
- Developed an accessible iOS app using SwiftUI, GPT-4o multimodal capabilities, and voice transcription models
- Deployed app in studies with real mixed-vision-ability families and **coauthored paper** accepted by **ACM IUI**
- Surpassed the industry-leading application Be My AI by **30%** in usefulness and **5%** in perceived accuracy

**Husky Satellite Lab**                                                       Apr 2024 – Present
*Software Subsystem Lead*                                                           *Seattle, WA*
- Managed a **15-person** software team for HuskySat-2, a **$275k** UNP-funded research satellite, launching in 2027
- Researched and developed C++ star-id and attitude estimation algorithms for the lost-in-space star tracker

**Pathway Foundation**                                                       Jun 2023 – Nov 2023
*Software Engineer Intern*                                                          *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 and tutoring.pathwayus.org, serving **over 300** website 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 an intelligent student laptop monitoring system with quick classroom insights and automation
- Built a Next.js teacher client and a SwiftUI MacOS student client that interface through MongoDB Atlas
- Gained pre-seed investor attention for startup potential and interviewed with Afore VC

**Triage** | *Next.js, Flask, HTML/CSS, Perplexity AI, SAM 2, REST API*                October 2024
- Placed **1st** out of **1000+** participants at DubHacks '24, the largest hackathon in the Pacific Northwest
- Developed an AI disaster assessment and detection tool using satellite imagery to improve emergency response
- Built with Next.js frontend, Python Flask backend, Intel Tiber hosting, and AWS CloudFormationStack

**ClinicChatBot** | *Flask, OpenAI API, ChromaDB*                                      July 2023
- Full-stack RAG chatbot application with fine-tuned GPT-3.5-turbo to specialize in helping clinic website visitors
- Deployed system to a local acupuncture clinic for an **86%** reduction in the average customer service ticket lifetime

## TECHNICAL SKILLS

**Languages**: Python, Java, C++, C, JavaScript, TypeScript, HTML/CSS, Swift, SQL, MQL, x86-64 Assembly
**Frameworks**: Node.js, React.js, Next.js, Express.js, Flask, SwiftUI, Flutter, Bazel, FastAPI, JUnit, Jest
**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, Cloud Computing, Cybersecurity, Parallel Programming, Statistics, Probability, NLP, REST API, HTTP, MCP