

Victor Liu

Seattle, WA | 775-772-9258 | vkliu@uw.edu | [linkedin.com/in/vkliu](https://www.linkedin.com/in/vkliu) | github.com/v-kliu | US Citizen

PROFILE

A driven and curious computer science student at the University of Washington, bringing a unique perspective shaped by challenging roots as a Chinese-American in a small, predominantly white Nevada city, interested in backend development.

EDUCATION

University of Washington Seattle, WA
B.S. in Computer Science, Minor in Entrepreneurship; GPA: 3.7/4.0 March 2026
• Coursework: Data Structures and Parallelism, Algorithms, Databases, Software Design and Implementation, Hardware and Software Interface, Discrete Math, Probability and Stats, Linear Algebra, Differential Equations

TECHNICAL SKILLS

Languages: Java, Python, C, C++, JavaScript, TypeScript, HTML, CSS, SQL
Frameworks: ReactJS, NodeJS, React Native, PyTorch, PyGame, Expo Go, JUnit, ExpressJS, Selenium, Tailwind
Technologies: MongoDB, Firebase, AWS, Git, GitHub, Visual Studio Code, IntelliJ, Vim, GDB

EXPERIENCE

Software Development Engineer Intern May 2025 – Aug 2025
Amazon Web Services (AWS) Seattle, WA
• Architected data integrity pipeline processing **11.9M+ credential records** across **71 distributed tables** with **99.99% accuracy** in Alpha testing, detecting propagation anomalies across distributed AWS infrastructure
• Engineered derivation algorithm and validation process for daily credentials of **110M+ AWS customer accounts** across **15+ opt-in regions**, shipped pipeline to **production** to limit credential exposure to **24 hours**
• Built comprehensive testing and monitoring infrastructure using **JUnit frameworks** and **CloudWatch metrics**, enabling end-to-end validation and real-time monitoring for critical security operations at enterprise scale

Founder Jan 2025 – Feb 2026
soarin.ai Seattle, WA
• Founded an **AI-driven** career development platform that converts preexisting user data into polished resumes and LinkedIn profiles using fine-tuned extraction pipelines and **natural language processing**
• Finalizing a **\$30K contract** with the University of Washington for upcoming year after delivering a high-impact MVP to streamline their most congested resume and cover letter advising appointments
• Generated an **800+ user waitlist** and attracted venture interest through strong product traction, earning a **Y Combinator** interview and pitches to Pack Ventures and Madrona Venture Group

Machine Learning Intern Feb 2023 – Sep 2023
University of Nevada, Reno Reno, NV
• Explored fundamentals of machine learning under Dr. Hao Xu, focusing on reinforcement learning with **Q-learning models** and **Bellman-Ford's equation**, leading to a deeper understanding of machine learning principles
• Developed an AI solver for the app Flow, utilizing reinforcement learning techniques and **path-finding algorithms** learned to continually refine the AI's performance to solve **8x8 grid puzzles** with **7 individual paths**
• **Achieved 80% accuracy** and **5x speed improvement** over humans when solving 10 puzzles across 1,000 tests
• Solved the game Snake by setting up, training, and utilizing a neural network with **PyTorch**

PROJECTS

GooseGuard - Hack The North Hackathon | *NextJS, Tailwind, MongoDB, HuggingFace* Sep 2024 – Sep 2024
• Developed web app for detecting scam emails, texts, and calls by transcribing and analyzing them in real-time
• Leveraged **340 million parameter BERT model**, **achieving 96% accuracy** identifying scam communications
• Built multi-page website with **NextJS, Tailwind** and a dashboard connected to **MongoDB** as backend

Consider This AI - Berkeley AI Hackathon | *TypeScript, NextJS, Hume API, Supabase* Jun 2024 - Sep 2024
• Built an innovative MVP that leverages AI for educational discussions, impacting critical thinking skills of K-12 students, by developing a platform using **TypeScript, Next.js, Tailwind CSS**, and **Supabase** as backend
• **Boosted user engagement by 40%** through empathetic and personalized AI agents, improving user confidence and knowledge on complex topics, by integrating Hume's \$300M EVI technology; design partnership with Hume AI

eCall - DubHacks Hackathon | *FastAPI, Flask, Google Cloud, Twilio, Hugging Face* Oct 2024 – Oct 2024
• Architected a global emergency platform utilizing **T-Mobile location services** and **Twilio** to automate localized emergency dialing for travelers, bypassing the need for manual knowledge of international service numbers
• Engineered a real-time multilingual translation bridge by integrating **Google Cloud APIs** and **Hugging Face** to eliminate language barriers and enable seamless communication with local emergency services
• Engineered a scalable backend with **FastAPI** and **Flask** to synchronize real-time location telemetry and automated call flows, significantly reducing response latency for high-stakes emergency scenarios and global safety