

Victor Liu

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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: 3.72/4.0

Expected June 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, AWS (IAM, CloudWatch, Lambda, S3)

EXPERIENCE

Software Development Engineer Intern

May 2025 – August 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 – Present

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

TimeSync | TypeScript, ReactJS, Google Calendar API, Firebase

Oct 2023 – Jun 2024

- **Led team of 4** to develop a **ReactJS** full-stack app, syncing personal calendars to highlight shared availability
- Implemented a responsive UI, integrating **Google Calendar API** with **Firebase** handling **7000+ data points**
- Showcased **demo to 1,000+ members** of Husky Coding Project club, demonstrating real-time synchronization

TimeWrapped | TypeScript, React Native, AWS DynamoDB, Expo Go

Apr 2024 – Jun 2024

- Built an iOS mobile application that tracks daily time usage across 9 categories and summarizes trends
- Utilized **React Native** for front-end, **DynamoDB** for backend with 500+ data points, deployed via **Expo Go**
- Presented application to **200+ members** of tech entrepreneurship club cseed, showcasing features and capabilities