

# Sam Liokumovich

samliok@stanford.edu   samliok.me   github.com/samliok

## **WORK EXPERIENCE**

**Ava Labs** | Go, Rust, WASM

July 2024 - Present

Software Engineer

- Productionizing the first WebAssembly based smart contract framework on Avalanche [HyperVMs](#).
- Core contributor of the [HyperSDK](#), an opinionated framework for building hyper-scalable blockchains.

**Ava Labs** | Go, Rust, WASM

Jan 2023 - Jan-2024

Engineering Intern

- Spearheaded the first WebAssembly based smart contract framework on Avalanche [HyperVMs](#).

**Elevance Health** | Solidity, Typescript, GoQuorum

Jun 2022 - Aug 2022

Software Engineer Intern

- Engineered a custom Ethereum blockchain to facilitate transactions across prescription drug supply chains
- Synthesized Medicaid.gov data using Oracles and NodeJS servers to provide real time data to smart contracts
- Designed front-end user interfaces to interact with the smart contracts using Javascript and React
- Tested network with Hyperledger Caliper resulting in throughput of over 50 transactions per second

**Elequin Capital** | Python, Excel, VBA

June 2021 - August 2021

Software Developer Intern

- Assisted portfolio managers with fundamental credit analysis across variety of asset classes including Investment Grade and High Yield corporate credit, Municipals, and Agency Mortgage-Backed Securities
- Systematized performance analysis of execution algorithms and proposed updates designed to reduce transaction costs
- Automated web scraping to retrieve bonds analytics into relevant database resulting in annual cost savings of \$65,000 and 10+ hours of weekly time savings

**Anthem** | Python, Typescript, Kubernetes, IBM Qiskit

Oct 2020 - Jun 2021

Machine Learning Engineer

- Performed aspect-based sentiment analysis on user reviews of Digital Health Apps using natural language processing to quantify market research.
- Instituted Kubeflow Pipelines to expedite the process of multi-stepped machine learning projects
- Designed front-end web UIs to display data from algorithms and deployed using React and Kubernetes
- Participated in Anthem's quantum readiness training, geared towards building a team of professionals who are capable of creating quantum computing algorithms to improve healthcare's most pressing issues

**Baxter Credit Union** | C#, SQL

Jun 2020 - Sep 2020

Software Developer Intern

- Programmed an API responsible for validating credit cards and integrated payment transfer balance between internal and external systems

## **EDUCATION**

**Stanford University**

Class of 2024

B.S. in Computer Science. *Specialization in systems.*

**Activities:** Varsity Track & Field, Stanford Blockchain Club, Stanford Poker Club, Dorm President

## **ACCOMPLISHMENTS**

**Launched Throws Club on iOS App Store (2024):** Launched a performance analytics tool allowing athletes to engage, analyze and share throwing content. Garnered over 800 monthly active users and growing.

**Launched Circles on iOS App Store (2023):** Developed a react native application allowing users to journal about the individuals they encounter in their life.

**Ethereum Hackathon Prize Winner (2022):** Hacked with a team of 5 to create [Aspan](#), a borderless USD savings account tailored to emerging market retail savers.

**Track & Field All American (2019):** Placed third at New Balance track and field nationals in the shot put.