

Kayvan Kazeminejad



Profile Summary

I am an experienced *developer* and *architect* with over 25+ years of experience in a variety of platforms and programming languages including:

Haskell, Rust, PureScript, Scala, NixOS, Plutus, Solidity, C/C++.

I have worked in a number of industries including:

Blockchain, Banking and Finance, Healthcare, Music and Video streaming, Entertainment, IoT, Hardware manufacturing, and Military.

Haskell is my favorite programming language and I truly enjoy working on Haskell projects.

Contact details

@ kayvan@q2io.com

+1 415 636 1124

kayvank

in kayvankazeminejad

Personal information

Citizenship: **USA**

Family: **Married with children**

Languages: **English, Farsi**

Skills

- Haskell, Rust, PureScript, NixOS, Scala,
- Kubernetes, Helm charts, AWS, GCP, Terraform
- PostgreSQL, Redshift, Big Query, MongoDB, Redis, Apache Spark, Flink, Elasticsearch
- JavaScript, Node.js, GitHub

EXPERIENCE

HASKELL DEVELOPER at IOHK (Remote)

2023.09–Present

- ◇ Design and implementation of Marconi chain-indexer tool, while working with the PlutusApps team. The tool was used by a number of IOHK teams, reducing their development time significantly.
- ◇ Redesigned and upgrade Partner-Chain's Trustless Haskell, PureScript and Plutus smart contracts, allowing for seamless integration with non-IOHK blockchains
- ◇ Haskell and Plutus contribution in design and implementations of StableCoin while working with dJed team, which allowed for early release of the StableCoin Pricing-Oracle
- ◇ Contributed to design and implementation of the fastBft Consensus Rust platform while working with Innovations team, which lead to adaption of fastBft by the midnight blockchain

HASKELL DEVELOPER at Soostone (Remote).

2021.03–2023.09

- ◇ Contributed to the development of the napkin, A sophisticated SQL meta-programming environment that accelerates modern data engineering efforts across multiple backends (w.g. BigQuery and Redshift)
- ◇ Design and implementation of the OAuth 2.0 flow for the "napkin" project, resulting in a much smoother user experience
- ◇ Contribute to replacing the legacy Monad stack with a Polysemy effect system, resulting in a more maintainable and flexible architecture, hence reducing time to market

SENIOR CONSULTANT at Trucklabs (Remote).

2020.03–2021.02

- ◇ Built the backend portion for IoT event collection into AWS DynamoDB
- ◇ Architected and developed multiple user-facing APIs including smart-trucks routing, fuel consumption, and ETA estimation. These contribution resulted in 11% fuel consumption reduction and increased driver retention by 27%
- ◇ Scala, Apache Flink, Apache Spark, Elasticsearch, Redshift, DynamoDB, Node.js

SENIOR CONSULTANT at RChain (Remote).

2018.04–2020.03

- ◇ Design and developed rSong, an on-chain music dApp that was showcased at MIT-Media-Lab as well as RCon3, the dApp was downloaded several thousand time
- ◇ Contribute to design and implementation of rSpace, a Scala implementation of Tuple-Space used for RHolang smart-contracts storage layer
- ◇ Scala, Node.js, Python, RHolang smart-contracts, Kubernetes, Helm charts

SENIOR CONSULTANT at Vevo (San Francisco, CA).

2015.11–2018.04

- ◇ Build cloud-based data services enabling Vevo's music recommendation engine to improved user-retention by 17%
- ◇ Build HTTP APIs and a number of JSON-RPC services using Http4s, providing data-services to downstream teams as well Vevo clients
- ◇ Mentor junior developers
- ◇ Scala, Node.js, Python, Kubernetes, Helm charts, Terraform, AWS Serverless

SENIOR CONSULTANT at Intel(Santa Clara, CA).

2013.09–2015.11

- ◇ Contribute to design and implementation of VoD, Video on Demand, automated workflow for video assets encoding/decoding clusters, resulting in decreased video dissemination time by 39%
- ◇ Contributed to design and implementation of VoD encoder/decoder of video assets in C++ to take advantage of the new clusters, decreasing decoding time by 37%
- ◇ Design and implementation of the VoD reporting system providing real-time status-reporting of transcoders pipeline
- ◇ Scala, C++, Terraform, MongoDB, Cassandra, Elasticsearch, Kafka

CONSULTANT at Various locations

2000-01–2013.09

I worked as a consultant in various industries including, Banking, Finance, Healthcare, Defense, Hardware manufacturing, and Government

EDUCATION

California State University, Sacramento.

1994–1999

Bachelor of Science in Computer Science and Mathematics

CERTIFICATIONS

- ◇ DATA BASE ADMINSTATION *Northrop Grumman*
- ◇ NETWORK ADMINSTATION, *Northrop Grumman.*
- ◇ ADVANCE NETWORK PROGRAMMING, *Northrop Grumman.*
- ◇ GAME THEORY, *Coursera.*
- ◇ CRYPTOGRAPHY, *Coursera.*
- ◇ SOLIDITY, *Alchemy.*

HOBBIES

I am an Endurance Athlete, and have completed several IRONMAN