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 several industries including:
Blockchain, Banking and Finance, Healthcare, Music, and Video streaming, Entertainment, IoT, Hardware manufacturing, and Military.
I love programming in Haskell.

Contact details

✉ kayvan@q2io.com
☏ +1 415 636 1124
⌨ kayvank
in kayvankazeminejad
⌂ San Francisco, CA USA

Technical skills

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

Soft skills

- Collaborate effectively with coworkers to reach shared goals
- Resilient, Respectful, and eager to learn new skills

EXPERIENCE

HASKELL DEVELOPER at *IOHK (Remote)*   **2023.09–Present**
◇ Design and implementation of the PlutusApps Marconi chain-indexer tool. The tool was used by several IOHK teams, including PartnerChains and dJeds teams, improving their productivity by +15%
◇ Redesigned Partner-Chain's Trustless Haskell, PureScript, and Plutus smart contracts, improving integration time with non-IOHK blockchains by +12%
◇ Haskell and Plutus contribution to the design and implementation of dJed StableCoin, which allowed early release of the StableCoin Pricing-Oracle
◇ Contributed to the design and implementation of the Innovations fastBft Consensus Rust platform, which led to the adoption of the fastBft consensus by the Midnight blockchain

HASKELL DEVELOPER at *Soostone (Remote).*   **2021.03–2023.09**
◇ Contributed to the development of the napkin, a SQL meta-programming environment that accelerates data engineering efforts by +30% across multiple backends (e.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**
◇ Implemented data ingestion pipelines using Scala and Apache Kafka to stream IoT sensor data into AWS DynamoDB, enabling real-time analytics dashboards for +200 clients
◇ Implemented multiple user-facing APIs, including smart-trucks routing, fuel consumption, and ETA estimation. These contributions resulted in reducing the fuel consumption by +15% while increasing driver retention by +30%
◇ Scala, Apache Flink, Apache Spark, ElasticSearch, Redshift, DynamoDB, Node.js

SENIOR CONSULTANT at *RChain (Remote).*   **2018.04–2020.03**
◇ Design and implementation of rSong, an on-chain music dApp that was showcased at MIT-Media-Lab as well as RCon3, the dApp was downloaded several thousand times
◇ Contribute to the 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**
◇ Engineered the cloud-based data services enabling Vevo's music recommendation engine to improve user retention by 17%
◇ Developed HTTP APIs and several JSON-RPC services using Http4s, providing data services to downstream teams as well as 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**
◇ Engineered VoD, Video on Demand, workflow for video assets encoding/decoding clusters, resulting in decreased video broadcast time by 39%
◇ Contributed to the design and implementation of the 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 the 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, Health-care, Defense, Hardware manufacturing, and Government

EDUCATION

California State University, Sacramento. **1994–1999**
Bachelor of Science in Computer Science and Mathematics

CERTIFICATIONS

◇ DATABASE ADMINISTRATION, *Northrop Grumman*
◇ NETWORK ADMINISTRATION, *Northrop Grumman.*
◇ ADVANCED NETWORK PROGRAMMING, *Northrop Grumman.*
◇ GAME THEORY, *Coursera.*
◇ CRYPTOGRAPHY, *Coursera.*
◇ SOLIDITY, *Alchemy.*
◇ PLUTUS, *Pioneer program, as well as Plutus Project-Based Learning, PPL.*

HOBBIES

I am an Endurance Athlete, and have completed several IRONMAN