Kayvan Kazeminejad

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San Francisco, CA
gitbub, linkedIn

I am an experienced Haskell, Rust, and Nix Developer with a proven track record of delivering high-quality software solutions. I possess extensive experience in functional programming and have successfully contributed to various projects that require deep problem-solving skills. My ability to collaborate with cross-functional teams has improved project outcomes and enhanced application performance.

Professional Experience

IOHK

Senior Haskell developer (Sept 2023 - Present)

At IOHK, I have worked with several teams, including Plutus-Apps, StableCoin, PartnerChain, and Innovations-Consensus, developing in Haskell, Purescript, Rust, and Plutus smart contracts.

Accomplishments:

- Spearheaded the development of the Marconi chain-indexer, which was the fastest indexer at the time
- Redesigned the PartnerChain Haskell and PureScript platform, resulting in a 35% performance improvement
- Mentored Junior developers
- Actively contributed to open-source Haskell libraries, enhancing community collaboration.

Soostone

Haskell developer (March 2021- Sept 2023)

Technology Stack:

- Haskell, Purescript, NixOS, Redshift, BigQuery, Amazon RDS

Contributed to the development of the napkin, a single point of entry for all typical workflows of data engineering and pipeline curation across Amazon Redshift, Google BigQuery, PostgreSQL..

Accomplishments:

- 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 composable and flexible architecture

XStreamtrucking

Senior consultant (March 2020- Jan 2021)

Technology Stack:

- Scala, Haskell, Kubernetes & Helm, Apache Flink, Elasticsearch, RedShift, DynamoDB, InfluxDB

As a member of the mpg/m team, I design and implement the backend IoT platform:

- Data pipelines to stream IoT sensor data to Flink applications in both EMR & Kubernetes runtime
- Spark batch jobs
- Multiple microservices in Node.js, Scala, and Haskell

Accomplishments:

- Providing real-time sensory data merged with environmental context for hundreds of "smart-trucks" on the road, for the first time. The software was showcased in several international truck shows and resulted in 400% business growth

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RChain

Senior dApp and platform consultant (April 2018 - Feb 2020

Technology Stack:

- Scala, Haskell, Nix, RHolang for smart-contracts

As a member of the core team, I contributed to the development of:

- r-song dApp
- rSpace, a Scala implementation of tuple-space
- rSong, an on-chain music DAP

Accomplishments:

- Engineered core components of the r-song dApp, enabling a 40% reduction in transaction fees for music creators and consumers on the RChain platform within six months.. The software was showcased in mit-media-lab as well as RCon3

Vevo LLC

Senior data-platform consultant (Dec 2015- April 2018)
Responsible for the design and construction of the data collection platform

Technology Stack

- Scala, Flink, Node.js, Kubernetes, Helm

Accomplishments:

- Architected and deployed cloud-based data services on AWS using Scala and Flink, enabling Vevo's music recommendation engine to process 5 million user preferences weekly. This dramatically improved content personalization.

Intel – IntelMedia(Verizon)

Senior Software Engineer (Nov 2013 Nov 2015)
Note that Intelmedia was a division of Intel and was purchased by Verizon in 2014 with the brand "go-90"

Software engineer responsible for VOD workflow, Video On Demand workflow

Technology Stack

- Scala, C++, Mongodb, Dynamodb, Cassandra, ElasticSearch, Kafka

As a member of the VOD team, I contributed to the design and implementation of:

- VOD workflow and VOD encoding/decoding

Accomplishments:

- Design and implementation of VOD encoding/decoding cluster, resulting in over 1000% efficiency and extensive cost savings.

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WellPoint (Anthem BlueCross)

Architect and Lead Consultant (Aug 2011 – Nov 2013)

Intel Folsom CA

Senior Consultant (Jan 2011 – June 2013)

Healthnet Federal Services

Senior Consultant (Nov 2010 – April 2012)

Northrop Grumman, Electronic Signal Laboratory

Senior Consultant (Sept 2007 – Sept 2010)

J.A Majors Company / Baker & Taylor

Senior Consultant (Sept 2005 – October 2007)

St. Lawrence University

Senior Consultant (August 2004 – December 2006)

UC Santa Barbara

Senior Consultant (August 2003 – December 2004)

California Department of Mental Health

Senior Consultant (June 2004 – November 2006)

Miami-Dade Community College

Senior Consultant (April 2001 – October 2004)

California Franchise Tax Board

Senior Consultant (June 2002 – January 2003)

California Public Employees Retirement System

Senior Consultant: (June 2000 - June 2002)

State of California, Board of Equalization

Various Positions and Assignments (September 1999 – June 2004)

Education

California State University of Sacramento
- Bachelor of Science in Computer Science & Math