Keyvan Mir Mohammad Sadeghi

AI Solutions Architect

Innovative AI leader with a deep understanding of applied machine learning and over a decade of experience in managing AI development teams. Committed to fostering research-driven innovation and driving the successful implementation of AI technologies across various industries.

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SKILLS

ML Engineering   Project Management   Research Collaboration   Product Development   Open Source Leadership

Python   Computation Graphs   MLOps   Distributed Systems   Big Data   Cloud   Hardware   Blockchain

EDUCATION

MSc Artificial Intelligence
University of Southampton, UK

10/2010 - 02/2012   *with Distinction*

EXPERIENCE

Co-founder, CEO
Functionland

01/2021 - Present   *Toronto, Canada*
Functionland is a spin-off from Filecoin, where data sovereignty and decentralized hardware infrastructure merge for optimal user experience.
Achievements/Tasks

- **Open Source Community:** The intro blog garnered 500+ stars on Github and gathered over 1K community members in Telegram.
- **Crowdfunding Triumph:** Orchestrated a highly successful 1-month presale event on Indiegogo, securing over US$500,000 in sales for committed nodes, affirming the strong product-market fit. All devices were delivered to backers by August 2023.
- **Testnet Engagement:** Expanded the Functionland network by achieving 1000 initial nodes and aggregating over 1 petabyte of storage capacity at launch. Mobilized a substantial user base, with 108,000 individuals registering for the Functionland testnet waiting list, showcasing a growing interest in the platform's unique approach to decentralized cloud storage.
- **Strategic Backing and Funding:** Garnered substantial backing from prominent Web3 investors, including Protocol Labs, Filecoin, Dfinity, Crust, Cudos, Outlier Ventures, Techstars, and several other global investors and partners, and successfully raised a US$1.1 million token seed round, underlining the platform's strong industry recognition, financial strength, and support.
- **Elite Design Partnership:** Collaborated with renowned designer Yves Béhar to craft Functionland's distinct hardware form factor. Spearheaded the ground-up design of the in-house small-board computer, leveraging the robust RK3588 SoC. This collaboration uniquely positions Functionland's hardware as both functionally superior and aesthetically pioneering in the decentralized storage realm.

Co-founder, CTO
Assister Technology Ltd

12/2018 - 08/2021   *Toronto, Canada*
Assister.Ai was on a mission to develop a private, open source and general AI Assistant platform.
Achievements/Tasks

- **Startup Visa Recognition**: Relocated to Canada as a recipient of the Startup Visa Program, sponsored by NEXT Canada. Selection to the 2019 NextAI program was intensely competitive, with teams applying from over 50 countries and an 8% acceptance rate.
- **Chat Innovations** : Pioneered a concept analogous to ChatGPT, harnessing the capabilities of LLMs within a chat interface. The vision was centered around embedding what I named *Lingual User Interfaces* directly into web pages.
- **W3C Collaboration**: As the chair of the Functional Knowledge Graph group at W3C, took the lead in drafting meticulous specifications delineating the process by which web page functions communicate with language engines through meta HTML tags.

EXPERIENCE

Technical Lead, AI Team
Mahan Air

04/2017 - 11/2018   *Tehran, Iran*

Achievements/Tasks

- **Legacy Software Migration** : Joined as a Software Architect and played a pivotal role in migrating fleet assignment/planning Windows application to a modern SaaS.
- **Team Formation and Growth** : Proposed and established the Mahan AI team, overseeing its ROI and overall management. Successfully expanded the team from its initial 2 members to 10 within a year.
- **Innovative Project Implementation** : Spearheaded a project that leveraged Machine Learning to automate fleet assignment at Mahan, showcasing the potential of AI in optimizing aviation operations.

Technical Director
MAPS Startup Studio

02/2015 - 01/2017   *Tehran, Iran*

Achievements/Tasks

- **Agile Implementation**: Assisted multiple portfolio companies in the effective adoption of the Agile methodology through the POC and MVP stages, providing hands-on technical guidance and actively collaborating as an integral team member until their successful graduation.
- **Miras Technologies**: In the inaugural year at MAPS, joined forces with Miras Technologies (boasting 4 US patents in Big Data). Led a significant product pivot post-founder's departure, with a paramount achievement being the development of a real-time predictive maintenance system built atop Apache Spark, aimed at analyzing power station turbines.
- **Satratech**: Transitioned to Satratech, an E-Health startup, in the subsequent year. Instrumental in overhauling the backend of **Shafajoo**, a platform dedicated to doctor-patient matchmaking and appointment reservations. In the process, architected a Neo4j graph model tailored for E-Health, culminating in the creation of the koa-neo4j open source framework.
- **Stakeholder Updates**: Engaged in regular liaisons with the MAPS board, offering updates on the ongoing progress of the five resident startups. Bridged the lexical gap between technical founders and business stakeholders, ensuring smooth communication and aligned objectives.

Lecturer / Researcher
Azad University of Isfahan / Isfahan Science and Technology Town

09/2014 - 02/2015   *Isfahan, Iran*

Achievements/Tasks

- **Teaching**: Delivered the **Foundations of AI** course to undergraduate students.
- **Cloud in Iran**: Pioneered the establishment of the Cloud Computing R&D group within the ISTT, focusing on offering Infrastructure as a Service (IaaS) and Platform as a Service (PaaS) solutions to Iranian enterprises.
- **Failure**: Despite facing challenges due to limited acceptance of cloud computing concepts within the Iranian market at the time, the venture represented a valuable experience and contributed to a deeper understanding of technology adoption dynamics.

Project Associate / AGI Researcher
Hong Kong Polytechnic University / Novamente LLC

05/2012 - 09/2014   *Hong Kong*

Achievements/Tasks

- **AGI as the first career**: Had the privilege to work directly with Ben Goertzel, immediately post-graduation.
- **Stepping into AI Architectures**: Played a pivotal role in the design and development of various sub-components within the OpenCog AGI framework during my tenure at OpenCog's Hong Kong lab.
- **Papers**: Continued contributing to the R&D efforts under Ben's other company, Novamente LLC, resulting in the co-authorship of several research publications.

PUBLICATIONS

Conference Paper

Uncertain Interval Algebra via fuzzy/probabilistic modeling

Author(s)

Keyvan Mir Mohammad Sadeghi, Ben Goertzel

2014

IEEE International Conference on Fuzzy Systems (FUZZ-IEEE)