

# Moein Hosseini

London, UK

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## EXPERIENCE

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- **Quantcast** *DSP specialised in AI-driven real-time advertising* London, UK  
*Senior Software Engineer* *Jan 2020 - Present*
  - Leading a project to replace a legacy 12-year-old pixel stack, handling a substantial workload of hundreds of thousands QPS. Ensuring a smooth transition, minimal downtime and alignment between the two stacks.
  - Devised and implemented an adaptive sampling system, resulting in a 80% reduction in time-to-life for campaigns.
  - Optimised the spend controller service, achieving a 200% cost reduction while maintaining optimal performance.
  - Successfully incorporated support for privacy compliance regulations, namely GDPR, CCPA, COPPA, and GPC.
  - Actively participated in Inventory, Control, and Edge Service Teams, effectively collaborating across multiple areas of the business to address critical challenges and drive impactful solutions.
- **Tapsi** *Iran's pioneering ride-sharing company and first startup to go public* Tehran, Iran, Iran  
*Senior Data Engineer* *Dec 2018 - Dec 2019*
  - Led a team of 3 engineers in creating a scalable and fault-tolerant data warehouse and computation stack, boosting efficiency and reducing query times by over 300% for BI and customer support teams.
  - Created a synchronisation service for data warehouse consistency, ensuring accurate and up-to-date analytics.
  - Built a stream processing application responsible for schema inference, persistence, and automatic creation of Hive tables for events submitted into Apache Kafka.
  - Managed data pipeline and reporting systems setup and maintenance, handling tens of thousands of daily jobs.
- **BisPhone** *Messaging application serving nearly 3 million users (prior to discontinuation).* Tehran, Iran  
*Technical Product Manager (In addition to my Data Engineering role )* *Mar 2018 - Dec 2018*
  - Collaborated with team leads and reported directly to the CEO to define a comprehensive technical roadmap, aimed at minimising technical debts and breaking down features into actionable tasks.
  - Designed an end-to-end encrypted chat feature, implementing robust security measures by utilising Diffie-Hellman and AES algorithms. Additionally, designed and implemented backend RPC endpoints.
- **BisPhone** Tehran, Iran  
*Data Engineer / Big Data Developer* *Dec 2016 - Dec 2018*
  - Designed and Implemented a high-performance realtime unique count service to calculate user interaction with messages leveraging Apache Flink, Apache Kafka and Cassandra.
  - Orchestrated seamless data migration from legacy MySQL to Cassandra, minimizing downtime through strategic planning, meticulous execution, and comprehensive testing. Ensured data integrity and uninterrupted service throughout the transition.
  - Played an instrumental role in enhancing the core messaging, broadcasting, and file serving services by implementing new features using Akka and Scala.
- **HungerStation** *Online food ordering platform, acquired by FoodPanda* Remote  
*Software Developer* *Nov 2015 - Mar 2016*
- **PersianBlog** *The first blogging platform in Farsi* Tehran, Iran  
*Software Developer* *May 2014 - Dec 2014*
- **ShivehCo** *Specialised in the GIS and realtime tracking systems.* Tehran, Iran  
*Junior Web Developer* *Jun 2013 - May 2014*

## SKILLS

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- **Languages:** Golang, Scala, Java, Python, SQL
- **Technologies:** AWS, Spark, Kafka, Cassandra, Flink, Postgres

## EDUCATION

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- **Amirkabir University of Technology - Tehran Polytechnic** Tehran, Iran  
*Master of Science, Information Technology* *2015 - 2018*
- **K. N. Toosi University of Technology** Tehran, Iran  
*Bachelor of Science, Computer Engineering* *2010 - 2015*