Hossein Falaki

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SUMMARY

I am an experienced software engineer and data scientist looking for new technical challenges at the intersection of computer science and statistics.

EXPERIENCE

Software Engineer   Databricks Inc.
San Francisco, CA   *2013-present*
I am one of the first software engineers at Databricks. I lead the end-to-end development of several product and open source features. Currently, I am responsible for R experience and machine learning ecosystem integration on the Databricks platform.

Senior Data Scientist   Apple Inc.
Cupertino, CA   *2012-2013*
I worked on modeling and improving accuracy and performance of Siri. My job required collaboration and data-driven communication with several other teams.

Research Assistant   UCLA
Los Angeles, CA   *2008-2012*
I worked with Prof. Deborah Estrin on mobile sensing and mobile health projects at the Center for Embedded Networked Sensing of UCLA.

Research Intern   Cisco Systems
San Jose, CA   *Summer 2010*
I worked on vehicular mobile networking at Advanced Architecture and Research Group .

Research Intern   Microsoft
Redmond, WA   *Summer 2009*
I worked at Microsoft Research to understand how users interact with their smartphones.

Research Assistant   University of Waterloo
Waterloo, Ontario, Canada   *2006-2008*
I was a research assistant of Prof. S. Keshav on the KioskNet project.

EDUCATION

Ph.D. Computer Science
University of California, Los Angeles, CA   2012

MMath. Computer Science
University of Waterloo, Ontario, Canada   2008

BS. Computer Engineering
Sharif University of Technology, Iran   2006

Diploma, Mathematics and Physics
National Organization for Exceptional Talents, Iran   2002

GRADUATE COURSEWORK

- **University of Waterloo**: Advanced Algorithms, Game-Theoretic Methods, Internet Services and Performance, Computer and Communications Security, System Performance Evaluation

- **UCLA, Statistics**: Applied Probability, Theoretical Statistics, Advanced Modeling and Inference, Regression Analysis

- **UCLA, Computer Science**: Approximation Algorithms, Online Algorithms, Internet Architecture and Protocols, Advanced Topics in Internet Research, Queueing Systems Theory, Embedded Systems

TECHNICAL SKILLS

- **Programming Languages**: Scala, Java, R, Python

- **Machine Learning & Statistical Analysis**: Linear Modeling, Exploratory Data Analysis, Statistical Data Visualization

- **Performance Engineering**: Distributed Systems, JVM-based Applications, Service-oriented Architecture, Web Applications

PUBLICATIONS

Full list of citations are available on my Google Scholars page.

- Shivaram Venkataraman, Zongheng Yang, Davies Liu, Eric Liang, *Hossein Falaki*, Xiangrui Meng, Reynold Xin, Ali Ghodsi, Michael Franklin, Ion Stoica, Matei Zaharia, **"SparkR: Scaling R Programs with Spark,"** *International Conference on Management of Data, 2016*

- *Hossein Falaki*, Ratul Mahajan, and Deborah Estrin, **"SystemSens: A Tool for Monitoring Usage in Smartphone Research Deployments,"** *MobiArch, June 2011.*

- *Hossein Falaki*, Dimitrios Lymberopoulos, Ratul Mahajan, Srikanth Kandula, and Deborah Estrin, **"First Look at Traffic on Smartphones,"** *ACM IMC, November 2010.*

- *Hossein Falaki*, Ratul Mahajan, Srikanth Kandula, Dimitrios Lymberopoulos, Ramesh Govindan, and Deborah Estrin, **"Diversity in Smartphone Usage,"** *ACM/USENIX MobiSys, June 2010.*

- S. Guo, M. Derakhshani, *M.H. Falaki*, U. Ismail, R. Luk, E.A. Oliver, S. Ur Rahman, A. Seth, M.A. Zaharia, and S. Keshav, **"Design and Implementation of the KioskNet System,"** *Computer Networks, August 2010.*

- *Hossein Falaki*, Ramesh Govindan, and Deborah Estrin, **"Smart Screen Management on Mobile Phones,"** *Center for Embedded Network Sensing Technical Report, June 2009.*

- *Hossein Falaki*, and Sriniavasan Keshav, **"Trace-based Analysis of Wi-Fi Scanning Strategies,"** *ACM MCCR, January 2009.*

- *Hossein Falaki*, **"The Wi-Fi Roaming Game,"** *WINE, December 2007.*

- S. Guo, *M.H. Falaki*, E.A. Oliver, S. Ur Rahman, A. Seth, M.A. Zaharia, U. Ismail, and S. Keshav, **"Design and Implementation of the KioskNet System (Extended Version),"** *University of Waterloo Technical Report, November 2007.*

- S. Guo, *M.H. Falaki*, E.A. Oliver, S. Ur Rahman, A. Seth, M.A. Zaharia, and S. Keshav, **"Very Low-Cost Internet Access Using KioskNet,"** *ACM CCR, October 2007.*

- Earl Oliver and *Hossein Falaki*, **"Performance Evaluation and Analysis of Delay Tolerant Networking,"** *ACM MobiEval, June 2007.*

- Alireza Vahdatpour, Ahmadreza Tavakoli and *Hossein Falaki*, **"Hierarchical Graph: A New Cost Effective Architecture for Network on Chip,"** *IFIP EUC, December 2005.*