Behrooz Afghahi

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EDUCATION

Master of Science in Computer Science   **Expected May 2015**
Northeastern University, Boston, MA
Concentration: Machine Learning and Data Analysis
GPA: 3.95

Bachelor of Science in Pure Mathematics   **June 2012**
Shahid Beheshti University, Tehran, Iran.
Concentration: Mathematical Analysis

COMPUTER SKILLS
- Python, Java, R, JavaScript, PHP (Zend Certified), C, Scheme, shell script.
- MySQL, Cassandra, CouchDB, Apache Lucene/Solr, Redis, PostgreSQL, ZooKeeper.
- Statistical Analysis, MapReduce, Pig, Parallel Data Processing
- Build systems (Jenkins, Gradle), version control (GIT, SVN) and software development best practices.
- Linux (RHEL, Fedora), Android platform and network protocols (TCP/IP, SSL, DNS, SSH, HTTP)

WORK EXPERIENCE

Cooperative Education, *JANA Mobile, Boston, MA*   **January - August 2014**
- Designed and implemented a new member referral program that achieved 30,000+ daily new members. (Python, Java, CouchDB)
- Initiated and implemented fraud analysis/detection tools to increase product value. (Python)
- Designed and implemented live event aggregation and product health monitor (Apache Kafka, Redis and Zookeeper)
- Worked extensively on the Android platform, REST API's, UI and A/B testing (Java)

Lead Software Engineer - Web, *MBS Co., Tehran, Iran*   **August 2010 - November 2012**
- Led a team of engineers creating an enterprise mail server package to handle 50,000+ users per instance (PHP, Dovecot, MySQL, Apache load balancer)
- Collaborated on a localized Linux distribution based on Fedora (Parsidora)
- Consulted on the development and deployment process for a sister company (code optimization, build system, version control conventions, CDN, various levels of caching, automation tools)
- Developed web-based administration tools for Linux services (Snort, BIND, LDAP, IPtables)

Software Engineer - Web, *FarsiWeb, Tehran, Iran*   **June 2007 - October 2009**
- Implemented a distributed content repository for the National Art Foundation (PHP, Java, DSpace, MediaWiki)
- Developed a CRM system as part of the companies line of products. (PHP, MySQL)

SELECTED PROJECTS

Mood Music   **January - May 2013**
- Collaborated with a team of computer science students to develop a music recommender system based on sound wave information as opposed to meta-data learning (Semi-supervised learning, Python, Echo Nest)
- Click ***here*** for demo video.

Log Analyzer   **June - November 2012**
- Developed an automated log aggregator and analyzer to help identify network based attacks on a Linux cluster (Snort DB) and automate user support (C, PHP, Snort, Apache Solr)
- Supervised learning algorithm to detect causes of user issues

GRADUATE COURSES
Algorithms, Machine Learning, Data Processing in MapReduce, Statistics for Big Data, Information Retrieval, Computer Systems, Artificial Intelligence, Programming Design Paradigm