

# Behrooz Afghahi

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## CONTACT INFORMATION

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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**

**2007 - 2012**

Shahid Beheshti University, Tehran, Iran.

Concentration: Mathematical Analysis

## COMPUTER SKILLS

- Python, Java, JavaScript, PHP (Zend Certified), C, Scheme, shell script.
- MySQL, Cassandra, CouchDB, Apache Lucene/Solr, Redis, PostgreSQL, ZooKeeper.
- Solid understanding of build systems, version control and software development best practices.
- Solid understanding of Linux and network protocols (TCP/IP, SSL, DNS, SSH, HTTP)

## WORK EXPERIENCE

### **Cooperative Education, JANA Mobile, Boston, MA**

**January - August 2014**

- Designed and implemented the referral mechanism that achieved 30,000+ daily new members.
- Initiated and implemented fraud analysis tools that are being expanded by the team.
- Designed and implemented live event aggregation and product health monitor (Apache Kafka, Redis and Zookeeper)
- Worked extensively on the Android platform, adding new feature and extending the existing android app.

### **Lead Software Engineer - Web, MBS Co., Tehran, Iran**

**2009 - 2012**

- Designed and led a team of engineers creating an enterprise mail server package to handle 50,000+ users (PHP, Dovecot, MySQL, Apache load balancer)
- Built a localized Linux distribution based on Fedora (Parsidora)
- Designed 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**

**2009 - 2012**

- Implemented a content repository system for the National Art Foundation (PHP, Java, DSpace, MediaWiki)
- Developed a CRM system as part of the companies line of products.

## SELECTED PROJECTS

### **Mood Music**

- Music recommender system based on sound wave information (Semi-supervised learning, Python, Echo Nest)
- Click *here* for demo video.

### **Log Analyzer**

- 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