

SOFTWARE ENGINEERING MANAGER AND ARCHITECT

- Principal Software Engineer with more than 10 years of solid experience in industry in various areas such as Big Data, Realtime Data Processing, Micro Services, Mobile Applications, Web Applications and Cloud Solutions. Solid foundation in software design, data structures and algorithms, and strong analytical and debugging skills with customer-facing products experience. Strong organization and prioritization skills along with outstanding written and verbal communication skills. Experienced in production and development in mid-size and large-scale environment. Proven ability to manage and collaborate with subordinates on project delivery, including architecture, design, coding, testing, and deployment. Solid understanding of mathematical principles. Comfortable in both traditional and agile development environments.  
Tools and technologies (includes but not limited to) AMQP, Android, Angular, Ansible, AWS, Docker, ESRI, Flutter, Git, Hadoop, Hazelcast, Hibernate, Java, Javascript, JBOSS, Jenkins, Jira, JMS, jQuery, JSON, Kafka, Kerberos, Kubernetes, Maven, memcached, MongoDB, MySQL, Nginx, NodeJs, Oracle, PHP, Python, Rabbitmq, Redis, REST, SOAP, Spark, Spring Boot, Spring Cloud, Storm, SVN, Swift, Tomcat, UML, Vagrant.

## Work Experience

- **AT&T Services, Inc** Middletown, NJ  
*Principal Member of Technical Staff* *Aug 2015 - Now*
  - Leading four teams of 24 individual software developers offshore and on-site.
  - Architect and design platforms leveraging state-of-the-art data technologies to minimize development time and maximize performance and flexibility.
  - Reviewing code on daily basis for quality, consistency, and correctness
  - Mentoring junior software developers in the best practices and software design paradigms.
  - ACATS-VTS (AT&T Cloud Asset Telematics System - Vehicle Tracking System)
    - \* Designed and built entire system; capable of consuming and processing more than 100 million daily transactions transmitted by AT&T fleet of 80,000 trucks and 160,000 technicians
    - \* Developing real-time back-end geofence solution
    - \* Utilizing AMQP consumer client in Spring and parsing the JSON data; inserting to Oracle DB and pushing to kerberos secured Kafka in the Hadoop cluster
    - \* Consuming Kafka data with Storm and process the data in realtime
  - TechTracker - Tracking technicians in realtime
    - \* Architect and built a system for internal use and external customers with more than 12 million users
    - \* Designed and developed responsive, compact sized and fast loading; mobile and desktop friendly GUI in AngularJS
    - \* Developed high performance REST API microservice using Spring framework
    - \* Utilizing ESRI tools for drawing maps, routes and getting distances and ETA
    - \* Deployed the code on the cloud servers utilizing jenkins and kubernetes

- AI Advisor - Realtime Predicting, Monitoring Analytical tool for Customer Premises Equipment
  - \* Analyzed and queried of more than 30 million active network devices data using Hadoop platform.
  - \* Built and maintained scalable data pipelines using python, Spark and HBase.
  - \* Handled the data exchange between HDFS and different databases using Flume and Sqoop.
  - \* Developed Java MapReduce programs to analyze huge log files generated by diagnostic collector tools.
  - \* Configured and managed Apache Hadoop on the AT&T cloud servers utilizing Ambari
  - \* Setup automated processes to analyze the System and Hadoop log files for predefined errors and send alerts in case of error.
  - \* Managed hierarchical data-sets with extremely large amounts of data
  - \* Developed python scripts to parse huge CSV, JSON and XML documents and load the data in Oracle database and HDFS.
  - \* Using wxPython, numPY and matPlotLib to analyze and do statistics calculation.
- BillBoard - Internal News Distribution System
  - \* Developed backend REST API using Spring and Oracle
  - \* Developed responsive desktop front-end using HTML, JSP, jQuery, JSTL and Bootstrap.
  - \* Developed Hybrid client mobile application in Swift for iOS devices
  - \* Used Maven for dependency management and application building.
  - \* Used Atlasian and Git to manage the source code and used Jenkins for continuous integration.
  - \* Utilized Apache, Tomcat and Jetty java containers for serving the service, load balancing and reverse proxy
- youCoach - Technicians Monitoring and Training Platform
  - \* Developed the back-end software using Core Java, Servlets, JDBC, JMS, Spring, Hibernate and Java Beans.
  - \* Developed responsive web front-end using HTML, JavaScript, jQuery and Bootstrap.
  - \* Developed huge file parsing and processing tools in Python
  - \* Developed realtime report generating tools in Python

Technologies: Java, Python, PHP, Javascript, AngularJS, jQuery, Oracle, MongoDB, Hibernate, REST, JSON, SOAP, Git, Jenkins, Maven, Ansible, Kubernetes, JBOSS, Tomcat, Nginx, Spring Boot, Swift, Android, Hadoop, Storm, Spark, Kafka, Hazelcast, Rabbitmq, AMQP, JMS, Kerberos, ESRI.

● **AT&T Services, Inc. (contractor)**

Middletown, NJ

*Senior Software Developer*

*Sep 2014 - Aug 2015*

- U-Site - Field Technicians Inventory and Material Tool
  - \* Designed and developed back-end REST API with PHP and Oracle.
  - \* Developed native iOS applications in swift for Apple iPhone and Watch
  - \* Developed native Android applications in Java for Android phones and Watch
  - \* Used AFNetworking framework to connect RESTful API services and maintain in-background downloads, uploads, chat conversations, and messages from system.
  - \* Implemented MVC, Delegation, Notifications, KVC, and design patterns.
- U-COMM - Technicians Internal Communication and Training Tool
  - \* Developed backend service in PHP and Oracle
  - \* Developed native iPad application in objective-c

- \* Worked on git repositories to checkout and update the code changes.

Technologies: AFNetworking, Agile, AV Foundation, Android, Cocoa framework, Cocoapods, Cocoa Touch, Core Location, CSS, HTML5, iOS, Java, JavaScript, JIRA, JQuery, Mac OS X, MapKit, Objective-C, REST, Swift, Xcode.

- **Deutsche Bank USA (GFT USA Inc)**

Jersey City, NJ

*Java Developer*

*Jul 2014 - Sep 2014*

- Developed Deutsche Bank Autobahn electronic platform search application's user interface
  - \* Developed user interface using GWT for reusable widgets, table and grids and other complex ui component.
  - \* Responsible for deploying the application using on different environment using Teamcity.
  - \* Implemented client side GWT Paging solution that could be reused in other web applications.
  - \* Implemented Model View Controller (MVC) architecture using Struts framework at the web tier level to isolate each layer of the application to avoid the complexity of integration and enhance ease of maintenance.
  - \* Debugged Autobahn search API database transactions.

Technologies: Eclipse, GWT, GXT, HTML, J2EE, Java, Javascript, JQuery, JSP, MVC, Netbeans, Oracle 11g, Servlets, Struts, Teamcity, Tomcat.

- **SUNY Research Foundation**

Albany, NY

*Java Developer - part time*

*Oct 2012 - May 2014*

- Full life cycle development of a responsive mobile application for all platforms
  - \* Architected, implemented and tested the back-end using UML, Java, J2EE, MySQL and JUnit.
  - \* Designed a responsive user interface for mobile and tablet front-end using JSP, iWebkit and Bootstrap.
  - \* Built the database structure and monitored and improved its performance.
  - \* Maintained and supported the application throughout its functional life.

- **Novin Solution**

Tehran

*Software Developer*

*Jan 2009 - July 2012*

- Full life cycle development if a business to business web portal
  - \* Developed a multi-thread automated web crawler/extractor, gathering companies information from internet into the local databse in Java.
  - \* Created news, photo gallery, news letter, branches portable plugins for the b2b web portal.
- Content Management System
  - \* Designed and developed a content management system completely customizable by end user in php and MySQL.
  - \* Developed news web portal backend in python with django framework.
  - \* Developed news web site frontend in PHP using pear framework.
  - \* Designed the database schema and maintained the database server.
  - \* Maintained virtual private server; Linux web and mail server.

## Computer Skills

- Programming Languages: Java, Javascript, HTML, Objective-C, PHP, Python, Swift
- Big Data: Cassandra, Flume, Kafka, Hadoop, HBase, Hive, MapReduce, Spark, Sqoop, Storm, pySpark
- Web Frameworks: AngularJS, Bootstrap, Codeigniter, Django, GWT, GXT, jQuery, Laravel, NodeJS, Struts, Materials
- Cloud: AWS, EC2, S3, EMR, RDS, K8, GKE, EKS, Docker, microService, K8
- Data Storage: MongoDB, MySQL, Oracle, PostgreSQL, Redis, SQL Server, SQLite, Hazelcast, Memcached
- Technologies: AJAX, Agile, AMQP, Ansible, Ambari, AMQP, Android, CloudFlare, CSS, ESRI, Flutter, Git, Github, Gradle, Eclipse, HDFS, Hibernate, J2EE, Jenkins, JBoss, Jira, JMS, JSF, JSON, JSP, Kafka, Kerberos, LAMP, LaTeX, Maven, MVC, NetBeans, Nginx, NoSQL, OOP, Parse, Rabbitmq, REST, Scrum, SOAP, Sonar, Spring Boot, Spring Cloud, Stash, Sublime, SVN, UML, WebSphere, Vagrant, XCode, XML.

## Education

- **State University of New York at Albany, NY** Aug 2012 - May 2014  
*MSc, Computer Science*
  - Project: Hadoop application for analyzing huge web server access logs using MapReduce (Java)
- **State University of New York at Albany, NY** Aug 2012 - May 2014  
*PhD (unfinished), Computer Science*
- **Amirkabir University of Technology - Tehran** Jan 2007 - May 2009  
*MSc, Information Technology Engineering*
  - Thesis: An incentive mechanism for live video streaming over peer to peer networks (Java)
- **Shahid Beheshti University - Tehran** Aug 2002 - Dec 2007  
*BSc, Computer Science*
  - Project: Digital image processing application for optical mark reading device (Java)

## Other Projects

- Developed a big data in Hadoop MapReduce and deployed on a multi-node cluster platform, analyzing web server logs, Apr 2014.
- Designed and developed "UAlbany Market", ajax based online store, using J2EE in back-end, JSP in front-end and MySQL for the database, deployed on Amazon EC2 and S3, Dec 2013.

- Developed a big data application with Hadoop on a multi-node cluster platform, analyzing Twitter tweets, Dec 2013.
- Designed and developed "Blogbany", a social network website for UAlbany Students, back-end done in PHP and front-end with Bootstarp, May 2013.
- Contributed to SimpleDB, an open source Database Management System in Java, Dec 2012.
- Developed business to business web application in PHP-MySQL and it's iOS application with Objective-C, Jan 2012.
- Implemented a web Decision Support System based on a unique fuzzy logic using php. The web application provides hiring managers with useful information about the candidates and guides them through hiring process, Dec 2009.
- Designed and developed first ever notifier widget for iOS device lock-screen, showing number of new mails, texts and calls, Oct 2008.
- Developed first ever Persian and Hebrew calendar for iOS device on lock-screen using javascript, Aug 2008.

## **Honors and Awards**

- AT&T Software Symposium Speaker, 2018, Middletown, NJ
- AT&T Technology Operations Exhibitor, 2017, Dallas, TX
- AT&T Software Excellence Award for youCoach, 2016, Middletown, NJ
- AT&T Technology Operations Exhibitor, 2015, Dallas, TX