

# Payam V. Azad

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## Big Data Software Engineer

### SUMMARY

I am an Experienced, full stack Software Engineer that has a passion for Data and Algorithms and I have a deep knowledge of Machine Learning and Optimization. I am looking forward to pursue my career life as an expert in Big Data and Data Science, and gain more work experience in this field. Eager to face challenging problems and getting valuable knowledge out of various data and solve problems using them.

### WORK EXPERIENCE

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#### Amadeus IT Group

##### Senior Software Developer Engineer

Istanbul, Turkey Nov 2014 - Present (14 months)

J2EE and Oracle PL/SQL developer as part of Amadeus Istanbul division.

- Developing Loyalty Management and Recommendation System for Airlines
- Optimizing PL/SQL packages
- Tuning Loyalty Management System for customers based on their statistical data

#### Start-Up

##### Big Data Research and Development

Istanbul, Turkey Apr 2014 - Nov 2014 (7 months)

Sole developer of Customer Satisfaction System using Social Media for bank services.

- scrapping data from social media
- develop a package for online learning and analyze data using Java and Weka

#### Istanbul Technical University

##### Research Assistant

Istanbul, Turkey Mar 2013 - Sep 2014 (13 months)

Research Assistant in couple of projects in the field of Natural Language Processing and Optimization both funded by Turkish Ministry of Science (TUBITAK)

#### Paar Control

##### Developer, Software Analyst and Architect

Tehran, Iran 2009 Oct - 2012 Feb (2years 4 months)

Started as developer and grow to Architect and Project Manager by team growth (supervisor of 6)

- Developing learning systems for elevators based on statistical models (Decrease 20% energy consumption and 15% response time)
- Developed Building Management Systems over internet
- Developed Automation Software

#### Saroon Pardaz

##### Data Base Designer and Software Analyst

Tehran, Iran 2008 May - Aug 2009 (1years 3 months)

Working on 3 web applications based on MySQL and Microsoft SQL Server

#### Hamgaman Systems

##### Intern/Part time Software Developer

Tabriz, Iran Dec 2006 - Jan 2008 (1 years 2 months)

C++ Developer in Tabriz Municipality Automation system

### EDUCATION

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#### Istanbul Technical University

##### Master of Science in Computer Engineering

Istanbul, Turkey Feb 2012 - [will defend thesis on Jan 2016]

With emphasis over Data Science, Machine Learning and Optimization.

#### University of Tabriz

##### Bachelor of Engineering in Information Technology

Tabriz, Iran Feb 2005 - Jun 2009

## Data Science Skills

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**Machine Learning** Solid knowledge of Machine Learning and algorithms like Neural Networks, DeepLearning, SVN, Regressions, Random Forrest, Clustering and many more with a passion for mathematics and Statistics, Computer Vision and Recommendation Systems like Collaborative Filtering

**Scripting** Proficient at Python Scripting (pandas, NumPy, SciPy, theano, PyLearn2, sickit-learn, PySpark, seaborn, matplotlib,...)

- Fluent in scripting with R, Matlab and also working with Weka, Cafe and OpenCV
- Currently learning Scala

**Distributed Computing** Experience with Spark and MLlib over Yarn and AWS(currently developing anomaly detection package over Spark in corporation with Melbourne University) with some Hadoop and Hive knowledge

**Cloud Computing** Experience with Amazon and Cloudera webservices like EC2 and S3

**Data Science** Experienced with Data wrangling and web scraping (using R, python, java and...)

- Experienced in Data Visualization using R and Python (matplotlib, seaborn)

**DBMS** Proficient in Oracle Database and PL/SQL and also MySQL and Microsoft SQL Server

**Optimization** Knowledge of Discrete optimization and optimization algorithms such as Mathematical methods, Branch and Bound, Dynamic Programming, Genetic Algorithms, Ant Colony and familiar with GAMZ and CPLEX

## Software Engineer Skills

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### Software Engineering

- Extensive Work Experience with Agile and especially Scrum methodology
- design Experience with UML2 and Agile Modeling using Rational Rose and Enterprise Architect
- Solid understanding of software development cycle and methods

**Programming Languages** Java, Python, C++, Scala, C#.net, C, R, Matlab

**J2EE** Have experience of 3 years working with these technologies: Spring, AspectJ, JDBC, Hibernate, Servlet, JSP, GWT, JSF, Tomcat, Jboss, Maven, Ant,...

**DataBase** Skilled Database Designer using Oracle, MySQL, SQL Server 2000, SQL Server 2005 and SQL Server 2008 Also Experience with Hadoop (educational). Have an extensive knowledge of PL/SQL and some data warehousing.

**Web Development** Experienced JSP Developer and JavaScript; Familiar with PHP, ASP.net, Ajax, HTML, CSS, Joomla, WordPress, Drupal and Mobile Web Development

**Operating Systems** Windows, Linux

## CERTIFICATIONS

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### Data Science, Mar 2015

Online Data Science Courses from John Hopkins University including Getting and Cleaning Data, Data Wrangling, Practical Machine Learning, Exploratory data analysis and R Programming

### Machine Learning, Jan 2015

Online Machine Learning Course From Stanford University

### Learning Python for Data Analysis and Visualization, Jan 2015

Online Course at Udemy.com

### Taming Big Data with Apache Spark - Hands On!

Online Course at Udemy.com

**References** will be handed upon request.

**GitHub Link:** <http://pvza85.github.io/>