

## CONTACT

## INFORMATION

E-mail: aladagemre at gmail.com

Madrid/Spain

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## WEB PAGES

Personal Site: <http://www.emrealadag.com>Projects: <http://www.emrealadag.com/projects>Linkedin: <http://www.linkedin.com/in/ahmetemrealadag>Github: <http://github.com/aladagemre>Bitbucket: <https://bitbucket.org/aladagemre>

## INTERESTS

Backend Development, Full-stack Development, Personality Models, Data Science, Text Mining, Network Science, Visualization

## SKILLS

Python, Django, Flask, Celery, PyQt4, pip, virtualenv, fabric, Scrapy  
R, D3.js, NumPy, SciPy, Scikit-learn, NetworkX, Matplotlib, Spark  
NodeJS, Express, Restify, MongoDB, Redis, Neo4J

Scala, Akka, Crystal, Go, Revel

HTML5, JavaScript, JQuery, ReactJS, Redux, CSS, Bootstrap

C, Java, JUnit, Hadoop, Giraph, Nutch, HBase, MySQL

GIT, Linux, OSX, Docker, Mesos, Heroku, Jenkins, JIRA, L<sup>A</sup>T<sub>E</sub>X

## LANGUAGES

Turkish : Native Speaker

English : Fluent - TOEFL iBT: 108 (R29 L26 S26 W27),  
KPDS: 97.5

Spanish : Beginner

German : Beginner

## EDUCATION

Boğaziçi University, İstanbul, Turkey

2011 - 2018 (Expected) : PhD., Computer Engineering (3.56/4.00)

Thesis Topic: Predicting psychological attributes via text, data mining &amp; network analysis

Stack: Python, scikit-learn, nltk, pandas

Field: Complex Networks and Systems

Supervisor: Assoc. Prof. Haluk Bingöl

Kadir Has University, İstanbul, Turkey

2009 - 2011 : M.Sc., Computer Engineering (4.00 / 4.00)

Thesis Topic: Visualization of Protein-Protein Interaction Networks

Supervisor: Prof. Cesim Erten

Carleton University, Ottawa, ON, Canada

January 2009 - April 2009: B.Sc. Exchange, School of Computer Science

Işık University, İstanbul, Turkey

2005 - 2009 : B.Sc., Computer Science &amp; Engineering (3.74 / 4.00)

STARTUP EX	"Launching a Successful Software Startup" course by Emrah Yalaz in Boğaziçi University covering Lean, Agile, Scrum methodologies.	
EXPERIENCE	Amazon.com, Madrid, Spain.	
	<i>Software Development Engineer II</i>	July 2017 – Present
	<ul style="list-style-type: none"> <li>• Amazon Business Checkout and Orders</li> </ul>	
	Fikrimahal Teknoloji, İstanbul, Turkey.	
	<i>R&amp;D Engineer</i>	October 2015 – March 2017
	<ul style="list-style-type: none"> <li>• Technologies used: Scala, Akka, Play, NodeJS, ES6, RxJs, Crystal, Python</li> <li>• Architecture Design and development for large-scale software projects</li> <li>• Writing grant proposals for government fundings</li> <li>• Designing and developing distributed backend with Scala/Akka</li> <li>• Building Continuous Integration and Deployment infrastructure</li> <li>• System &amp; algorithm design and software development for P2P CDN with WebRTC.</li> </ul>	
	Universal Bilgi Teknolojileri, İstanbul, Turkey.	
	<i>R&amp;D Engineer</i>	April 2015 – September 2015
	<ul style="list-style-type: none"> <li>• Prepared R &amp; D Project proposals</li> <li>• Performed UX Design</li> </ul>	
	AGMLab, İstanbul, Turkey.	
	<i>R&amp;D Engineer</i>	February 2013 – September 2013
	<ul style="list-style-type: none"> <li>• Led Link Analysis Team of Turkish Search Engine running on a cluster of 100+ servers.</li> <li>• Implemented Graph-based distributed ranking algorithms (open source <a href="#">Gi-ranking</a> tool) with Apache Giraph and performed their integrations to Apache Nutch, Solr and HBase.</li> <li>• Developed proxy and sync mechanism of BuluttDepo (Dropbox-clone) desktop application for Türk Telekom.</li> </ul>	
	Woramo	
	<i>Co-Founder, Software Lead</i>	August 2011 – October 2013
	<ul style="list-style-type: none"> <li>• Woramo is a social network for sharing product/service reviews online. Friends can ask each other's opinion about a product or service over social networks. Users can share what they like and dislike and build wish lists. Those lists can be used to find gifts for friends. Members can also post questions about products and services, which can be answered by other community members.</li> <li>• Stack: Python, Django, MySQL, Redis, Celery, Memcached, ElasticSearch, Nginx, Jenkins.</li> </ul>	
	Kadir Has University Computer Engineering Department	
	<i>Research Fellow (funded by TÜBİTAK)</i>	September 2009 – August 2011
	<p>Analysis, visualization and verification of Protein-Protein Interaction Networks with respect to Co-Ontology and Co-Expression concepts.</p> <p>Project: <a href="#">Robinviz</a> (Reliability Oriented Bioinformatic Network Visualization)</p> <p>Supervisor: Prof. Dr. Cesim Erten</p>	
	<i>Teaching Assistant</i>	September 2009 – June 2011
	<ul style="list-style-type: none"> <li>• Crash Python Course to Introduction to Computational Biology class.</li> <li>• Crash Java Course to Data Structures and Algorithms class.</li> <li>• Exam, Homework, Project grading on Discrete Mathematics, Data Structures and Algorithms, Analysis of Algorithms and Introduction to Computational Biology courses.</li> </ul>	

PUBLICATIONS	A.E. Aladağ. "İstanbul Toplu Taşıma Ağı Analizi (Istanbul Public Transportation Network Analysis)", Akademik Bilişim Konferansı, 2016.	
	A.E. Aladağ, C. Erten. "SPINAL: scalable protein interaction network alignment.", Bioinformatics 29.7 (2013): 917-924.	
	A.E. Aladağ, C. Erten, M. Sözdinler, "Reliability Oriented Bioinformatic Networks Visualization", Bioinformatics, vol 27, pp. 1583-1584, 2011.	
	A.E. Aladağ, C. Erten, M. Sözdinler, "An integrated model for visualizing biclusters from gene expression data and PPI networks", Proc. International Symposium on Biocomputing, no.24, 2010.	
ACHIEVEMENTS AND AWARDS	Boğaziçi University	
	• TÜBİTAK PhD Fellowship	2011 – 2016
	Kadir Has University	
	• Full tuition award	2009 – 2011
	Işık University	
	• Ranked 2nd among 60 CSE Students	2009
PRESENTATIONS AND SEMINARS GIVEN	• Fellowship for Oracle DBA Training from Bilginç IT Academy.	2008
	• Full tuition award	2005 – 2009
	• Microservice Architecture with Docker and Apache Mesos, FOSS and Linux Days, 2016.	
	• Introduction to Machine Learning, Data Science Istanbul, 2016.	
	• Python and Linux Seminar at Karabük University in 2014.	
	• Linux Seminars between 2007 and 2014 to 500 people in total.	
COURSEWORK IN FIELD	• Intensive Python Trainings in 2008 and 2011.	
	<b>Undergraduate Courses Taken:</b> Data Structures, Analysis of Algorithms, Computer Graphics, Operating Systems, Computer Organization, Principles of Programming Languages, Database Systems, Software Engineering, Computer Networks, Bioinformatics, Applied Cryptography, Engineering Statistics, Game Theory, Robotics, Automata Theory, Technology Entrepreneurship	
	<b>Graduate Courses Taken:</b> Parallel Programming, Systems Programming, Operating Systems, Data Mining and Warehousing, Design and Analysis of Algorithms, Client and Server Side Web Programming, Engineering Optimization and Algorithms, Complex Networks, Social & Semantic Web, Artificial Intelligence, Evolutionary Dynamics, Computational Biology & Bioinformatics, Brain Dynamics, Biostatistics, Pattern Recognition, Information Retrieval	
	<b>Independent Coursework:</b> MITx - The Analytics Edge (Data Science)	