

# ASHKAN BANITALEBI DEHKORDI

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## Areas of Expertise

Software Design and Architecture  
Network and Distributed Systems  
Programming Languages  
Algorithms & Game Theory

## Educational History

2015–2018	MS. Computer Science <i>Stony Brook University</i> , NY, United States
2010–2015	B.Sc. Software Engineering <i>University of Tehran</i> , Tehran, Iran

## Professional history

2018–2019	TAP30 <i>Technical team lead @ back-end: promotion team head</i> Leading a team of 2-3 software engineers, creating tools of product promotion for marketing and operations teams. Tools including but not limited to gift cards, reward systems, and gamification subsystems.
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## Selected Projects

Summer 2016	<b>MY-SBUOS</b> Lightweight operating system focused on access control, efficient memory management, and O(1) scheduling <i>Using C &amp; Assembly for a 64-bit processor</i>	<i>Course project for CSE 506 Operating Systems</i>
Fall 2014	<b>Web data analyzer</b> Collecting, recognizing and classifying data fields on websites, partitioned by the websites' types. <i>Developed in PYTHON</i>	<i>Social Networks Lab, UT</i>
Fall 2014	<b>raxshpy</b> python GGP base framework <i>Developed in PYTHON (under construction)</i>	<i>UT GGP Team</i>
Summer 2014	<b>KaarZaar</b> online GGP match manager <i>Using Django, PYTHON, connecting on REST</i>	<i>UT Summer of Code</i>
Summer 2013	<b>RBPT</b> formal verification for wireless network protocols <i>Using ANTLR &amp; JAVA, ML</i>	
Fall 2013	<b>MeetMe</b> Web application to arrange meetings and assign rooms in a campus <i>Using Django, PYTHON, HTML, CSS, JS, postgresSQL, &amp; JavaScript (for load-testing)</i> <i>Practicing methodologies, principals, &amp; patterns for software architecture</i>	<i>Course Project for Software Engineering</i>
Summer 2013	<b>Notification Manager (NODAD)</b> Academic Social Network <i>J2EE web application using wicket &amp; hibernate</i>	<i>UT Summer of Code</i>
Fall 2012	<b>Shared memory, CPU scheduler, and Thread library</b> Designed and implemented shared memory, CPU scheduler, and thread library <i>Developed in C for UNIX</i>	<i>Course Project for Operating Systems</i>
Spring 2012	<b>Micado compiler</b> Compiler for an Object-Oriented Language supporting dynamic binding <i>Using ANTLR &amp; JAVA</i>	<i>Course Project for Design and Implementation of Compilers</i>

Fall 2011	<b>Search Engine</b> Large-scale search engine with google-like indexing and instant search <i>Developed in JAVA</i>	<i>Course Project for Data Structures and Algorithms</i>
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## Skills

Programming	PYTHON, JavaScript C/C++, JAVA, Lisp, Clips, ML, Octave, Haskell, SQL, Prolog, Befunge, bash Scala, MatLab, PHP, C#, Ruby	Pro Expert Familiar
Platform/Tools	Apache, MySQL, J2EE, maven, Wicket, Nginx, Redis, RabbitMQ, git, Django, Nodejs, Android, ANTLR, HTML, CSS, jQuery, Bootstrap, sqlite, postgresql, mongodb, ModelSim, SimpleScaler, Quartus II, MS Word, T <sub>E</sub> X, L <sup>A</sup> T <sub>E</sub> X, OpenOffice	
Language	Farsi English Arabic, Gilaki	Native Fluent Basic

## Research Experience

2017	<b>Mechanism Design: Specification and Automation</b> Domain Specific constraint programming language	DARLab
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## Membership & Leadership Experience

2014	UT GGP team	<i>Founder, Captain</i>	
2014	KaarZaar	<i>Product-manager</i>	UT ACM Summer of Code
2013	Notification Manager (Nodad)	<i>Developer</i>	UT ACM Summer of Code
2011 & 2012	UTACM AI contest for freshmen	<i>Coder, Staff</i>	UT ACM Student chapter

## Related Coursework

CSE 535 : Distributed Systems	<i>Scott Stoller</i>	SBU
AMS 545/ CSE 555: Computational Geometry	<i>Joe Mitchell</i>	SBU
CSE 540: Theory of Computation	<i>Jing Chen</i>	SBU
CSE 506 : Operating Systems	<i>Michael Ferdman</i>	SBU
Software Engineering	<i>Ramtin Khosravi</i>	UT
Graph and graph algorithms	<i>Behnam Bahrak</i>	UT