# 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

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|---|---|
| 2015–2018 | M.Sc. Computer Science<br>*Stony Brook University*, Stony Brook, NY |
| 2010–2015 | B.Sc. Computer Engineering *ECE Department, University of Tehran,*Tehran, Iran<br>Specialized in Software Architecture |

## Professional History

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|---|---|
| 2019-now | **Hermes AMC**<br>*Software Architect & Full-stack dev*<br>Developing software solutions for a host of functions in financial sector. |
| 2019 | **Blue Bit Soft**<br>*Back-end*<br>Maintaining and developing software for pharmacy with on-bike medicine delivery. |
| 2018-2019 | **TAPSI**<br>*Technical team lead @ back-end: promotion team head*<br>Leading a team of 2-3 software engineers, creating tools of product promotion used by marketing and operations teams.Tools including but not limited to gift cards, reward systems, and gamification subsystems. |

## Selected Projects

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|---|---|---|
| Summer 2016 | **MY-SBUOS**<br>Lightweight operating system focused on access control, efficient memory management, and O(1) scheduling<br>*Using C & Assembly for a 64-bit processor* | *Course project for CSE 506 Operating Systems* |
| Fall 2014 | **Web data analyzer**<br>Collecting, recognizing and classifying data fields on websites, partitioned by the websites' types.<br>*Developed in* PYTHON | *Social Networks Lab, UT* |
| Summer 2013 | **RBPT**<br>formal verification for wireless network protocols<br>*Using ANTLR &* JAVA, ML | |
| Fall 2013 | **Cloud File Storage & Sharing**<br>client-server cloud data storage<br>*Developed in* PYTHON *using sqlite3 for Linux* | *Course Project for Computer Networks* |
| Fall 2013 | **MeetMe**<br>Web application to arrenge meetings and assign rooms in a campus<br>*Using Django,* PYTHON*, HTML, CSS, JS, postgreSQL, &JavaScript (for load-testing)*<br>*Practicing methodologies, principals, & patterns for software arcitecture* | *Course Project for Software Engineering* |
| Summer 2013 | **Notification Manager (NODAD)**<br>Academic Social Network<br>*J2EE web application using wicket & hibernate* | *UT Summer of Code* |
| Fall 2012 | **Shared memory, CPU scheduler, and Thread library**<br>Designed and implemented shared memory, CPU scheduler, and thread library<br>*Developed in C for UNIX* | *Course Project for Operating Systems* |

| Fall 2012 | **Memory Management** | *Course Project for Computer Architecture* |
| | A survey on thread, chache, and memory management in harware level | |
| | *Using SimpleScaler for simulation* | |
| Fall 2012 | **Processor Design** | *Course Project for Computer Architecture* |
| | Implemented Single-Cycle, Multi-Cycle, and Pipeline Processors | |
| | *Developed in Verilog HDL* | |
| Fall 2012 | **Music Player & Recorder** | *Course Project for Microprocessors* |
| | A music player & recorder based on Atmel AVR | |
| | *Using AT-Mega32 Microcontroller operationg Serial Controler Component* | |
| Spring 2012 | **Micado compiler** | *Course Project for Design and Implementation of Compilers* |
| | Compiler for an Object-Oriented Language supporting dynamic binding | |
| | *Using ANTLR & JAVA* | |

## Skills

| Programming | PYTHON, JavaScript | Pro |
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| | Clojure, ClojureScript, C/C++, JAVA, TypeScript, Lisp, Clips, ML, Octave, Haskell, SQL, Prolog, Befunge | Expert |
| | Scala, MatLab, PHP, Bash Script, C#, Ruby | Familiar |
| | | |
| Platforms & Tools | Django, Nodejs, J2EE, React, React Native, Apache Servers, Nginx, ANTLR, Kafka, ZooKeeper, Jepsen (for tests) | |
| | sqlite, postgresql, MySQL, Mongo-DB | |
| | maven, leiningen, git, jira, docker, docker-compose | |
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| Language | Farsi | Native |
| | English | Fluent |
| | TOEFL 101 - GRE V:143, Q:167, AW:3.0 | |
| | Arabic, Gilaki | Basic |

## Membership & Leadership Experience

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

## Related Coursework

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