Pooria Azimi
Curriculum Vitæ

http://bit.ly/pooria-azimi-cv

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RESEARCH INTERESTS

Database and Information Retrieval Systems

Operating Systems
(File systems – Microkernels)

Concurrent Programming
(the "Actor Model")

Human-Computer Interaction

AWARDS

2ND PLACE   13th International Data Mining Cup, Berlin, Germany, 2012

EDUCATION

B.Sc. in **Computer Science**, 2014 (expected)
Amirkabir University of Technology (Iran)
GPA (last 60 CS credits): **16.5**/20

Ranked 590 (among 400,000+) in 2009 National Matriculation Exam (**top %0.2**)

TEACHING EXPERIENCES

Teacher Assistant

Database Design	(Winter '11)
Database Design	(Winter '12)
Artificial Intelligence	(Winter '12)
Database Design	(Winter '13)
Data Mining	(Spring '14)

Presenter

4th National Linux Festival	(Spring '12)
Advanced Unix Command-line	
AUT-CEIT Computing Festival	(Spring '12)
Introduction to Node.js	
AUT Database Workshop	(Spring '13)
PostgreSQL vs. MySQL	
AUT Database Workshop	(Spring '13)
Introduction to MongoDB	
AUT Database Workshop	(Spring '13)
Basics of Neo4j and Redis	

COMMUNICATION SKILLS

ENGLISH	Fluent
PERSIAN	Native speaker
GERMAN	Basic understanding

	TOEFL iBT	GRE GENERAL (EXPECTED*)	
Reading	30	Verbal Reasoning	160+
Listening	29		
Speaking	22**	Quantitative Reasoning	170
Writing	28		
Total	**109**	Analytical Writing	4+

* *Only the paper-based GRE test is administrated in Iran (results: **Dec 9th**). The above table is my expected scores based on a few (official and ETS-provided) practice tests.*

** *I'm taking another iBT test (results: **Nov 12th**) to improve my score in the Speaking section.*

TECHNICAL SKILLS

LANGUAGES	Java – Ruby – Erlang – C – PHP – Scala – Objective-C – CoffeeScript
DATABASES	PostgreSQL – MongoDB – Neo4j – Redis – Microsoft SQL Server
WEB	Node.js – Ruby on Rails – PHP – Sinatra – Backbone.js – Ember.js
MISC.	git – hg – vi – awk – sed – nginx – WebKit – ANTLR – BDD – LaTeX

Notable Projects

July 2011 – April 2012

Iran Telecommunications Research Center

Kavandeh Search Engine

Improving link-based Web page ranking algorithms in a Persian-only search engine, using various statistical and heuristic methods.

(Apache Nutch & Solr – WebKit – Java – C++)

March 2012 – June 2012

Visual WebPage Segmentation

Detecting Web page structure using statistical analysis of the visual representation of the rendered page content, and using that structure for improving ranking algorithms in a search engine.

(Node.js – PhantomJS – MongoDB)

January 2011 – June 2011

Baygan Database

An extendable and clearly-modulated framework for introducing students to the intricacies of relational database design. Inspired by pintos.

(Java – ANTLR)

June and July 2010

Embedded Search Engine

A complete, single-purpose search engine (written from scratch), designed to use minimal RAM (60MB) for indexing and searching the English Wikipedia, as the final project for the "Information Retrieval" course.

(Java)

Other Projects

2010 – 2013

Open Source Contributions

Contributing to multiple Open Source projects (code, documentation, and IRC support), including Ag (the silver searcher), hg-prompt, Kiwi, Homebrew, and fish shell.

BetterDictionary
(Objective-C – Cocoa – Core Data)

MiniJava Parser
(CoffeeScript – jison – d3.js)

Secure File System
(PHP – MongoDB)

A Twitter Clone!
(Ruby on Rails – PostgreSQL – CoffeeScript – Sass)

Ad Server
(Ruby – Sinatra – SQLite)

Farhang (partial contribution)
(Objective-C – Cocoa Touch – Core Data)

Online Education

In addition to attending my normal classes, I have watched the videos, and finished the assignments, of a dozen freely-available online courses, including the following CS-related ones:

- MIT's legendary Structure and Interpretation of Computer Programs *(1986 – by Harold Abelson and Gerald Jay Sussman)*
- UC Berkley's Operating Systems and Systems Programming *(2008)*
- Harvard's Introduction to Computer Science *(2010)* and Building Dynamic Websites *(2010)*
- Stanford's Programming Methodology *(2007)*, Programming Abstractions *(2008)*, Programming Paradigms *(2008)*, and iPhone Application Programming *(2013)*

I'm also taking the following Coursera courses this semester:

- EPFL's Functional Programming Principles in Scala *(2013 – by Martin Odersky)*
- EPFL/Typesafe Inc.'s Principles of Reactive Programming *(2013 – by Martin Odersky, et al.)*

References

Dr. Shahram Khadivi (Assistant Professor, Amirkabir University of Techlonogy, Iran)
http://ceit.aut.ac.ir/~khadivi/ – Email

Dr. Mehdi Ebadzadeh (Associate Professor, Amirkabir University of Techlonogy, Iran)
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Dr. Mohammad Rahmati (Associate Professor, Amirkabir University of Techlonogy, Iran)
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