

# Pooria Azimi

## Curriculum Vitæ

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



### RESEARCH INTERESTS

Database and IR Systems

Operating Systems

(File systems – Microkernels)

Concurrent Programming

(the "Actor Model")

Human-Computer Interaction

### 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**)

### COMMUNICATION SKILLS

ENGLISH Fluent

PERSIAN Native speaker

GERMAN Basic understanding

TOEFL iBT		GRE GENERAL (EXPECTED*)	
Reading	30	Verbal Reasoning	160+
Listening	29	Quantitative Reasoning	170
Speaking	22**	Analytical Writing	4.5+
Writing	28		
<b>Total</b>	<b>109</b>		

\* Only the paper-based GRE test is administrated in Iran (results: **Dec 9<sup>th</sup>**). The above table is my expected scores based on a few prep tests.

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

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### AWARDS

2<sup>ND</sup> PLACE 13<sup>th</sup> International Data Mining Cup,  
Berlin, Germany, 2012

### 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

### 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

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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

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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* – *json* – *d3.js* )

### Secure File System

( *PHP* – *MongoDB* )

### A Twitter Clone!

( *Ruby on Rails* – *PostgreSQL* – *CoffeeScript* – *Sass* )

## Farhang

( *Objective-C* – *Cocoa Touch* – *Core Data* )

## Ad Server

( *Ruby* – *Sinatra* – *SQLite* )

## ONLINE EDUCATION

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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

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

**Dr. Mehdi Ebadzadeh** (Associate Professor, Amirkabir University of Technology, Iran)  
<http://ceit.aut.ac.ir/~ebadzadeh/> – Email

**Dr. Mohammad Tahmati** (Associate Professor, Amirkabir University of Technology, Iran)  
<http://www.aut.ac.ir/rahmati> – Email

**Salim Malakouti** (Ph.D. Student, Pittsburgh University, PA, USA)  
Website – Email

**Ali Ghanbari** M.Sc. Student, Amirkabir University of Technology, Iran) – Email

**Ali Nadalizadeh** (Amirkabir University Alumnus – CTO at *Turned on Digital*, UK)  
Website – Email