# Pooria Azimi

Curriculum Vitæ

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


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## 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 | | |
| **Total** | **109** | | |

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

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

## Awards

2nd place — 13th 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

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)
http://ceit.aut.ac.ir/~ebadzadeh/ – Email

**Dr. Mohammad Rahmati** (Associate Professor, Amirkabir University of Techlonogy, Iran)
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**Ali Nadalizadeh** (Amirkabir University Alumnus – CTO at Turned on Digital, UK)
Website – Email

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

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