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)
- Database 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)

Farhang

(Objective-C – Cocoa Touch – Core Data)

Ad Server

(Ruby – Sinatra – SQLite)

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

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

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

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