

# Hojjat Aghakhani

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## RESEARCH INTERESTS

- ◇ **Software Engineering**
- ◇ **Software Architecture**
- ◇ **Software Verification**

## EDUCATION

- ◇ **B.S. in Software Engineering**, Department of Computer Engineering, Sharif University of Technology, Tehran, Iran. Sept. 2011 – June 2016 (expected)
  - **GPA: 17.65/20**
  - **Major Coursework: (GPA: 18.51/20)**  
Operating Systems (18.5/20), Computer Networks (17.9/20), Discrete Structures (18.7/20), Systems Analysis and Design (17.1/20), Computational Geometry (18/20), Design and Analysis of Algorithms (17.9/20), Advanced Programming In JAVA (18.8/20), Digital System Design (20/20), Web Programming (20/20), Software Engineering (17/20), Numerical Methods (20/20).
- ◇ **Young Scholars Club**, Tehran, Iran. Summer 2010
  - *Iranian National Olympiad in Mathematics*, **SILVER MEDAL**.

## PUBLICATION

- ◇ **Integrating Evolutionary Game Theory of Propagation of Survival and Death Signals through Gap Junctions into an Agent-Based Model of Ductal Carcinoma in Situ**  
A joint work with J. Habibi, N. Malekian and MH. Zangooe Submitted to *Journal of Theoretical Biology*<sup>1</sup>. Sept. 2015

## HONORS AND AWARDS

- ◇ **Top %0.1**, in the Iranian National Universities Entrance Exam for Bachelor of Science. Ranked **212<sup>th</sup>** among more than 284,000 participants. August 2011
- ◇ **Silver Medal** in Iranian National Olympiad in Mathematics. Summer 2011
- ◇ Recipient of the **grant** and membership of **Iranian National Elites Foundation**, for outstanding academic success. 2011 - current

## RESEARCH EXPERIENCE

- ◇ Research Assistant in **Bioinformatics Laboratory**  
Supervisor: Prof. J. Habibi Jan. 2014 - current
  - **Agent-Based Model of Ductal Carcinoma**: Applying a model comprising an evolutionary game component and a game theory component to ductal carcinoma in situ (DCIS), resulted in one submitted paper.
- ◇ Research Assistant in **Software Engineering Laboratory**  
Supervisor: Prof. J. Habibi June 2015 - current
  - **B.S. Thesis**: Legacy System Evolution towards Service-Oriented Architecture.

## TEST SCORES

- ◇ TOEFL iBT (Internet Based): 100/120 Oct. 2015
- ◇ GRE General (Computer Based) Nov. 2015
  - *Verbal Reasoning: 148/160, Quantitative Reasoning: 170/170, Analytical Writing: 3.0/6*

## UNDERGRADUATE PROJECTS

- ◇ **ACM-ICPC Challenge (Gold Hunters)**: Member of the ACM-ICPC Challenge development and design team.

<sup>1</sup>Abstract is available on <http://ce.sharif.edu/aghakhani/abstract.pdf>

- ◇ **MovieStation, A Social Network (Web Programming Course):** A joint project of designing and implementing of a social network website written in Python using Django framework. Users can rate movies, comment about them, and share their opinions.
- ◇ **Web-based Chat System (Web Programming Course):** A joint project of designing and implementing of a web-based chat system written in Node JS using mongoDB and webSockets.

VOLUNTEER  
WORK AND  
ACADEMIC  
SERVICE

- ◇ **Technical Staff of 16<sup>th</sup> Asia Regional ACM-ICPC Contest** Dec. 2014  
Tehran, Iran
- ◇ **Technical Staff of Java Challenge**, Tehran, Iran Feb. 2014  
A nationwide AI programming contest held by computer engineering department of Sharif University.

TEACHING  
EXPERIENCE

- ◇ Teacher Assistant, **Department of Computer Engineering, Sharif University of Technology**, Tehran, Iran. 2013 - 2015
  - Design of Algorithms, Prof. Zarrabi-Zadeh Fall 2015
  - Network and Data Security, M.S Dousti Fall 2015
  - Discrete Structures, Prof. Zarrabi-Zadeh Spring 2015
  - Discrete Structures, Prof. Abam Fall 2014
  - Engineering Probability and Statistics, Prof. Jafari Fall 2014
  - Data structures and algorithms, Prof. Abam Spring 2014
  - Advanced Programming in JAVA, P. Dodangeh Fall 2013
  - Numerical Methods, M. Gharib Fall 2013
  - Fundamental Of Programming C, O. Jafarinezhad Spring 2013
- ◇ Lecturer
  - **Sadeghie Salam High School**, Preparing students to participate in Mathematical Olympiad, Round 2nd. 2010 - 2012
  - **Farzanegan High School**, Preparing students to participate in Mathematical Olympiad, Round 2nd. 2013 - 2015

SKILLS

- ◇ Operating Systems: OS X, Windows, Linux
- ◇ Programming Languages: Java, Python, C/C++, PHP, Django, HTML, CSS, JavaScript, NodeJS, AngularJS, MongoDB
- ◇ Document Preparation:  $\LaTeX$ , Microsoft Office, Pages
- ◇ Tools: Microsoft Project, Android Studio, Android SDK, Git, Target Process, PyCharm, Altera Quartus, Wireshark, Cisco Packet Tracer, Eclipse, Xcode, Microsoft SQL-Server Workbench
- ◇ Languages: Persian/Farsi (native), English (fluent)