Nima Ahmadi

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01. AREAS OF INTEREST

Software Architecture, Mobile Applications, Software Engineering & Security

I am interested in software engineering with a particular focus on software architecture patterns especially in large scale systems; How to design, implement and maintain web-based/mobile applications in a secure and user-friendly way. My current area of research is analysis of.

02. EDUCATIONS

M.Sc. in Computer Science with Specialization in Ultra-Large Scale Software Systems   2016 - present

Queen's University, Kingston, Ontario, Canada

B.Sc. in Computer Engineering (Software Engineering)   2011-2016

Shiraz University, Shiraz, Fars, Iran

03. EXPERIENCES

Research Assistant at Software Technology Lab in Queen's University School of Computing   2016 - present

Analysis of Obfuscated Android Applications

Internship at Mellat Insurance Company   June - September 2015

Research, deployment and administration of Mellat insurance fraud detection service using complex event processing (CEP).

04. TECHNICAL SKILLS

Programming Languages

Java SE, Ruby, Python, C, SQL, JavaScript, HTML, CSS

Platforms & Frameworks

Ruby On Rails, Android, AngularJS

Operating Systems

OS X, Linux, Windows

Miscellaneous

Git, Sketch, IntelliJ IDEA, Android Studio, Eclipse

05. SELECTED PROJECTS

Mellat Insurance Fraud Detection Service
June - September 2015

Mellat insurance is one of the biggest insurance companies in Iran with more than 1000 agents throughout the country. There are a large number of interactions happening in their systems every minute. Considering the scale of their business, they are prone to high fraud risks. I was given the requirements for a fraud detection service which observes events happening in the system and matches them with some known patterns of fraud in real time and sends notifications to the operators in case. It was done using a message broker (ActiveMQ) for streaming the events form multiple services, a complex event processing engine (WSO2 CEP) and a dashboard developed by AngularJS for the operators. The project was done under supervision of Dr. Ali Hamzeh.

Home Automation Center (Z-Wave Controller)
Oct. 2015 - June 2016

This project is being developed as the main idea of the RoboTech startup. It is a controller for any Z-Wave based home automation system with some new features in comparison with the current controllers. I am in charge of developing the web and mobile client-side applications for the users to interact with the system.

06. SELECTED NON-TECHNICAL WORKSHOPS

Project Management

Foundations of Project Management I (Mitacs) Workshop

Networking

Networking Skills (Mitacs) Workshop

08. AWARDS & ACCOMPLISHMENTS

Expanding Horizons
April 2017

Professional Development Workshop Series, Queen's University

Startup Weekend of Shiraz
2013

Ranked as second team in the first **Startup Weekend of Shiraz**.

Workshop on Developing Business Plans
2012

A 2-day workshop held by Shiraz University on how to develop a business plan. Nominated for the **Best Business Plan**.

ACM Programming Contest
2011

Ranked as first team in ACM competition among co-entry students held by Shiraz university.

09. REFERENCES

Professor James R. Cordy, Professor, Queen's University, Kingston, Ontario (cordy@cs.queensu.ca)

Dr. Farshad Khunjush, Assistant Professor, Shiraz University, Shiraz, Iran (khunjush@shirazu.ac.ir)

Dr. Ali Hamzeh, Assistant Professor, Shiraz University (ali@cse.shirazu.ac.ir), Shiraz, Iran

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