Amanj Sherwany

STATUS
Canadian Permanent Resident

CONTACT
INFORMATION
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EDUCATION
Uppsala University, Uppsala, Sweden
   M.Sc., Computer Science, Jun. 2011
     GPA 4/5

University of Salahaddin, Erbil, Kurdistan - Iraq
   B.Sc., Software Engineering, Jun. 2006
     Ranked 1st

PROFESSIONAL
EXPERIENCE
Assistant Researcher (Assistant Doctorate) at Univeristà della Svizzera italiana, *Lugano, Switzerland, Oct. 2012 - Aug. 2016*
     Performed research in programming languages and lead the design and development of open-source libraries and compiler frameworks. Supervised final-year master and bachelor programming projects.

Assistant Lecturer at Salahaddin University, *Erbil, Kurdistan - Iraq, Jul. 2011 - Oct. 2012*
     Taught compiler techniques and topics about Software Development Life Cycle (SDLC), Software Development Models (like Agile and Scrum) and design patterns to undergraduate students. Supervised final-year bachelor projects.

Teacher Assistant at Salahaddin University, *Erbil, Kurdistan - Iraq, Jun. 2008 - Jul. 2011*
     Assisted in the laboratory.

Co-founder and Full-Stack Developer at AHAM Company for Software Engineering, *Erbil, Kurdistan - Iraq, Nov. 2006 - Jun. 2008*
     Worked as a full stack developer, using various technologies like Java, PHP, AJAX, CSS, HTML, Java Servlets, Java EE, Tomcat, and JSP. Developed web applications and database systems for small-to-midsize companies in Kurdistan region of Iraq.

COMPUTER SKILLS
- Programming Languages:
Extensive Knowledge:	Java, Scala and Haskell
Moderate Knowledge:	C, HTML, XML, JSP, JavaScript, CSS and Shell Script
Familiar with:	AJAX, Python, JSF, SML and PHP

- Frameworks:
Extensive Knowledge:	Parsec, ANTLR, ObjectWeb ASM library, Yacc (Bison), Lex, Scala Streams, Scala Compiler, Futures, Scala Macros, JUnit, ScalaCheck, and ScalaTest

Moderate Knowledge:	Android Programming, Java EE, Scalaz, Checker Framework and Play! Framework
Familiar with:	QuickCheck, RESTful services and Akka

- Programming Paradigms: Object-Oriented Programming (OOP), Functional Programming, Functional Reactive Programming, Parallel-Programming, and Procedural Programming
- Databases: MySQL, JavaDB, HSQLDB, Mimer, MS-SQL Server and MS-Access
- IDEs and Text Editors: Vim, Netbeans IDE, Intellij IDEA, Android Studio and Eclipse IDE
- Build-tools: SBT, Make, Ant, Maven and Gradle
- Operating Systems: Linux (Ubuntu), Mac OSX, Windows
- Other: UML, Git, Subversion, CVS and Mercurial

PROJECTS   Throughout my career I have worked on a number of projects, here are a few:
- *Sana Compiler Framework* is an extensible compiler framework written in Scala. It implements the concept of languages à la carte, which makes it possible to implement complex compilers from simpler ones. As a proof of concept, it provides a fully working Java 1.0 compiler and a number of other research languages like `dcct` and `oberon-0`. It can be found here: `http://github.com/amanjpro/languages-a-la-carte`.
- *Piuma Refactoring Framework* is a refactoring framework for Scala compiler plugins, written in Scala: `http://github.com/amanjpro/piuma`.
- *Loci: Simple Thread-Locality for Java* is a simple thread-locality checker (type-system) for Java and written in Java: `https://java.net/projects/loci`.
- *My developer page at Google Play Store:* `https://play.google.com/store/apps/developer?id=Amanj+Sherwany`.

PUBLICATIONS   Can be found at: `http://www.amanj.me/publications.html`.

HOBBIES AND SIDE WORKS
- Mentor at ZuriHack '15, A Haskell Hackathon at Google Zurich, May 2015, Zurich - Switzerland.
- Co-led a team for building a calculator using 5000 domino-pieces to celebrate the 10th anniversary of the Informatics Faculty in Università della Svizzera italiana - USI, Lugano - Switzerland, Oct. 2014.
- Volunteer at Speakers Organizing Team at TEDxErbil, Erbil, Kurdistan - Iraq, Apr. 2012 - Dec. 2012.

LANGUAGES PROFICIENCY   Kurdish Native, English, Arabic Fluent, Italian Intermediate

REFERENCES   Ready upon request.