

Rouhollah Farhang*

Personal Data

Place and Date of Birth: Isfahan, Iran | April 1983
Address: No 1, Nekoudeqqat alley, Jalali alley, Moallem st., Shariati ave., Tehran
Phone: +98 912 1774416
Email: rouhollah.farhang@gmail.com
Website: rfar.github.io
GitHub: github.com/rfar

Work Experience

<i>Current</i>	Project Manager and Full-stack Web Developer at Rastafann
Feb 2015	Currently managing, as well as partly developing, an online Islamic books library with full-text search named ABLibrary with offline versions available for Windows, iOS and Android.
Feb 2015	Programmer at Fat'h Research Center
Jun 2013	Developed cross-platform desktop application using C++/Qt.
Feb 2014	Network Programmer at Web R&D Center
May 2013	Worked as a network programmer performing network traffic capture under linux.
Nov 2013	Design Engineer at KavoshCom R&D
Sep 2009	Worked on improving GPS/GLONASS algorithms.
2007-2008	Researcher at Acoustics Research Center, Tehran
	Extensive knowledge on Infrasound, Infrasonic Sensors, Data Centers and Interferometry.

Education

Jan 2009	MSc in Communications Engineering, Sharif University of Technology , Tehran Major: Electrical Engineering Thesis: "Throughput Analysis of Routing Algorithms in 802.11s-Based Wireless Mesh Networks" Advisor: Dr Farid Ashtiani
Sep 2006	BSc in Electrical Engineering, Iran University of Science and Technology , Tehran Thesis: "Positioning by TOA Estimation in Wireless Multipath Channels" Advisor: Dr MohammadHossein Kahaie

* This document has been typeset in "Alegreya" typeface using \LaTeX with \XeLaTeX engine.

Awards and Certificates

Feb 2011	2 nd Rank in the 24 th Khwarizmi International Festival Was member of the team winning the award for designing, manufacturing and testing a space GPS receiver for positioning satellites in LEO.
May 2006	CCNA: Cisco Certified Network Associate Graduated the course held under supervision of AsanWeb Sharif with excellent grade.
June 2005	ZD: Zertifikat Deutsch als Fremdsprache Attended the course and passed the examination at Iran Language Institute (ILI).

Programming Skills

Having Basic Skills at:	Common Lisp (especially the SBCL implementation) Racket Language Haskell Programming Type-Level / Type-Driven Development in Idris OCaml Programming Quantum Computing Rust Programming and its ownership system Logic Programming in Prolog Objective-C Programming GNU Make Java Programming, including Java 8 features Android SDK Programming Parallel Programming using nVidia CUDA
Skilled at:	Functional Programming Concepts and Techniques Clojure Programming including STM concurrency model, Identity/State separation, Reducers, and Spec Relational Theory and PostgreSQL Golang Server-side Programming Emacs & Emacs Lisp C Programming Version Control using Git Linux OS Node.js including File System API, Cheerio (for webscraping), and Express.js web framework L ^A T _E X typesetting Python Programming Swift 5 & Cocoa Framework Software Design Patterns Object-Oriented Programming Agile Methodology specially Scrum MATLAB Programming
Proficient in:	C++ Programming including modern C++11, and C++14 standards Qt Application Framework JavaScript (including ES6+) and numerous front-end libraries including Ramda, Lodash, Moment.js, PDF.js and Lovefield React Framework and its ecosystem (e.g. Redux and react-router) Webpack & Babel

Other Skills

Cryptography:	PGP & OpenPGP Public-Key Cryptography
Reverse Engineering:	Familiar with detailed ELF binary structure Static Binary Analysis Dynamic Binary Analysis IDA Pro 7 Disassembler Radare2 Reverse Engineering Framework
Bitcoin & Blockchain:	Familiar with how they work and the their applications
Emacs:	Emacs Lisp language Org Mode (an advanced outliner, task manager, etc.) Magit (a textual interface to Git) Cider (Clojure IDE) SLY & SLIME (Common Lisp and Scheme IDEs)

Software Skills

VS Code (JavaScript/React and Golang), LightTable (Clojure IDE), Qt Creator/Designer, Xcode, Eclipse, Tmux (terminal multiplexer), Zsh (bash alternative), iTerm (macOS terminal emulator), Android Studio, MS Visual Studio, Valgrind, JetBrains IntelliJ & Pycharm, Oracle NetBeans, Sublime Text, SmartGit, SourceTree, Tower (macOS Git client), GitExtensions, Doxygen, Texmaker, Texpad (macOS \LaTeX editor), KDiff, Beyond Compare, Wireshark

Languages

Persian:	Mothertongue
English:	Fluent
French:	have a good command of
German:	have a rather good command of
Arabic:	Intermediate Written Knowledge

Interests

Full-stack Web Development
Functional Programming
String Algorithms
Reverse Engineering Typography

About Me

Since as far back as school years I've had a tendency towards developing fresh skills and trying new things. However, having majored in Electrical Engineering and minored in Communications Engineering was not a perfect match for my insatiable desire for reading and learning—of which learning French and German languages has been an example.

On the other hand, with programming not only could I learn and improve my skills constantly, but also have had the opportunity to design and develop in line with my own tastes as programming is the at intersection of engineering and art. Besides that, in the world of programming there is almost no gap between the new techniques that I learn and their real world usage.

I'm a computer and technology geek—following the latest news, tools, languages, gadgets and apps. And always enjoy reading the latest books on technology and programming. My preferred OS is Debian

Linux and use Emacs and VS Code on a daily basis.

During recent years I've been learning functional programming paradigm (mainly using Clojure) and since I have not had the opportunity to use a functional language at work, have been applying these principles to C++ and JavaScript, which I have been developing professionally during the day.

At the moment I'm learning about statically-typed functional programming languages, specially type-level programming in Haskell and Idris, Quantum Computing, and Reverse Engineering and Binary Analysis.