

Rouhollah Farhang

Personal Data

Place and Date of Birth: Isfahan, Iran | April 1983
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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

Courses Attended

- Digital Communications
- Stochastic Processes
- Data Networks
- Coding Theory
- Optimization Theory

- Spread Spectrum Communication
- Queuing Theory
- DSP

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 Rust Programming and its ownership system Objective-C Programming GNU Make Android SDK Programming Haskell Programming OCaml Programming Functional Type-Level Programming Quantum Computing
Skilled at:	Functional Programming in Clojure Relational Theory and PostgreSQL Golang Server-side Programming Emacs & Emacs Lisp C Programming Python Programming Swift 5 & Cocoa Framework Java Programming, including Java 8 features Object-Oriented Programming Parallel Programming using nVidia CUDA MATLAB Programming Software Design Patterns Version Control using Git Linux OS Node.js L ^A T _E X
Proficient in:	C++ Programming (including modern C++) 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	
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

Functional Programming
Reverse Engineering

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 cruise along the road of learning every single day by learning new techniques, but also had the opportunity to design and develop in line with my tastes as it is, sort of, an 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 kind of a computer and technology geek—following the latest news, tools, languages, gadgets and apps. Making heavy use of hot-keys is my habit—either it's navigating around in macOS, Ubuntu, or



coding in VS Code or my favorite text editor, Emacs.

Recently I've been hooked with functional programming and full-stack web development in favorite language Clojure(Script).