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   38100 Grenoble

❖ mmokhi@FreeBSD.org
❖ mmokhi on GitHub
❖ mmokhi on IRC
(FreeNode/EFNet)

Open source Activities[1]

General Overview of Technical knowledge

Mohammad Mehdi (Mahdi) Mokhtari Irani

- FreeBSD Developer/Committer.
- Maintainer/porter of MySQL for FreeBSD (5.6, 5.7 and 8.0) [also other ports[1]]
- Implemented new *at version of *execve*(2) syscall (`execveat(2)`) for FreeBSD
- Implemented `cxa_thread_atexit(3)` API for FreeBSD Libc for being used in ThreadLocal Destructors
- Helped on implementation of FreeBSD `catrigl` (Complex trigonometric functions for `long double size`)
- Working on Linuxulator (Linux binary emulation) for FreeBSD

- FreeBSD Bugmeisters@ team's community-member

- Developed PERL-extensions for FreeBSD Bugzilla

- Developed feature(s) for Mozilla's Bugzilla itself

- Ported FatElf binary format standard to FreeBSD (not-landed)

- Ported Mach-O format (its image activator) for NextBSD/FreeBSD (not-landed)

Programming Languages/HDLs with higher skill: C, C++, X86-Assembly, Verilog, Perl, Bash/Sh/CSH
Programming Languages also worked: PHP, Python, Java, HTML, XML

Operating Systems: FreeBSD, Linux (Desktop, Embedded), OS X, AIX, MS-Windows

Networking: Standards: TCP/IP, SFTP, FTP, HTTP, SSH
                OpenMesh: B.A.T.M.A.N, Freifunk

Database(s): MySQL, MariaDB, SQLite

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[1] More Info about my Open Source activities is available on my FreeBSD wiki page (https://wiki.freebsd.org/MahdiMokhtari).

Professional Experience

FREELANCER TECHNICAL ADVISOR/CONSULTANT -- Tehran, Iran, 2018
Maintaining Open-source software and advising the companies to use them

Client-Companies and Accomplishments:

- SMART SOLUTIONS (RAHA) Co: "Offer"[2] (Android) application
  "Offer" is a shopping assistance, brings the best prices and
  special-offers each day from Iranian online-markets

NETZKOMMUNE GMBH -- Duesseldorf, Germany
Software engineering Intern, FreeBSD-specialist, 2017 summer (internship)
Developed FreeBSD drivers, application programs (ports) and helping on
maintaining them

Accomplishments:

- Fixed suspend/resume issue for FreeBSD on Lenovo X240
- Participated and completed Implementation of FreeBSD driver for
  VirtualBox Shared Folder with FreeBSD as the guest OS
- Fixed build of net-mgmt/netdata port for FreeBSD 12.0 (regarding ABI change).
- Participated in design and implementation of new libmysqlclient for
  abstraction of usage of ports that rely on this from installing
  same-version of MySQL
- Ported mod_pagespeed to FreeBSD
- Started new implementation of 802.11ac for Intel72[65]0:
  more-generalized version of the idea is candidate to be mentored by me for GSoC 2019
- Working on lsyncd port for FreeBSD
- Working on LogTop port for FreeBSD

HASIN GROUP COMPANY -- Tehran, Iran
Part-Time Software Developer, 2014 to 2017
Developed FreeBSD/Linux drivers, application programs. created test
transactions to find, isolate and rectify issues; and managed a team of
programmers

Accomplishments:

- Architected and participated in developing FreeBSD/Linux driver
- Led, architected and participated in the design, testing and
  development of portable and thread-safe Task Automation application
  that was used specially for deploying specific configurations on
  edge-servers in a web-hosting system
- Developed codes & design for test/QA plans of solutions
- Redesigned software systems to gain more productivity, efficiency and
  uptime
- Trained and mentored junior programmers (fresh employees) in
  programming methodologies and best practices

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[2] Available at CafeBazaar (Local Android AppStore) : https://cafebazaar.ir/app/ir.raha.offer/?l=en

Education & Credentials

UNIVERSITY OF GRENOBLE-ALPES -- Grenoble, France
Computer Network Engineering, 2018 to now

UNIVERSITY OF TEHRAN -- Tehran, Iran
BSc. in IT Engineering Candidate, 2013 to 2018

HATEF Pre-University Institute -- Tehran, Iran
Diploma in Mathematical Sciences, 2012 to 2013

HATEF HIGH SCHOOL -- Tehran, Iran
Diploma in Physics and Mathematics, 2009 to 2012

HONORS (till now):
- Speaker at FreeBSD-DevSummit (EuroBSDCon 2018, Bucharest) about my idea for the next GSoC on FreeBSD net-stack
- Speaker at FreeBSD-DevSummit (EuroBSDCon 2017, Paris) about important contributions that was done to different parts of FreeBSD Operating system during 3 month of summer 2017
- Program Committee Member of "Open-source day" held in University of Tehran
- Trained and mentored junior programmers (fresh students in the university)
- TOEFL-ibt 85.0 of 120.0
- Rank 672 amongst 68,426 individuals with same admission quota "Zone1" (and 218,411 persons all in the Mathematical Sciences group) of Nationwide University Entrance Exam of Iran

Personality

I'm being known between friends, coworkers and family for:
- I'll finally find solutions of problems and I won't resign until solve it in a clever and acceptable way
- My LOVE for learning
- Kind heart and good sense of humor and helpful in all situations in anyway I can
- Loving culture differences and having friends of all types of all cultures
- Thinking and coding is my playing and amusement
- Being collaborative person
- My programming skills

Hobbies:
- Problem Solving
- Going outdoor, walking, nature surfing
- Linguistics
- Astronomy (Amateur observation of the Solar system objects)
- Watching people doing their regular life in street from a window
- Guessing people's behavior in special situations
- Cooking & Eating

* Further documents and proofs are available if needed