FARZAD SHARIFBAKHTIAR

Nanaimo BC, Canada
1.604.442.6105, FarzadSBakhtiar@gmail.com

TOOLSET EXPERIENCE

> 1000 Hours:
Python, PHP(5,7) & Symfony(2,3), MySQL, DOM-based JS, Git, OO Design Patterns, Algorithms

250-1000 Hours:
Java, C

50-250 Hours:
Unit and Functional Testing, REST, Nodejs, Apache, MongoDB, Pytorch, Django, Slurm, Elasticsearch, Micro services

< 50 Hours:
Redis, Hadoop, CUDA, OpenMP, AWS, Docker, Google Ads/Analytics

EDUCATION

M.Sc, Computer Science — Fall 2018 - Fall 2020
Simon Fraser University, Burnaby BC, Canada
Supervisor Prof. Joseph Peters

B.Sc, Software Engineering — Fall 2012 - Fall 2017
Sharif University of Technology, Tehran, Iran
Supervisor Prof. Mohammad Ghodsi

WORK EXPERIENCE

Videoboom, Tehran, Iran — January 2018 - May 2018
Software Developer, full-time - ***Python, OpenRTB***
Designed a real-time video ad auctioning server with a micro-service architecture. Implemented the DSP micro-service.

Peeyade, Tehran, Iran — October 2017 - January 2018
Software Developer, freelance - ***Python, Elasticsearch***
Built a search system to search for locations/events based on the user's geo data.

Tezlabs, Tehran, Iran — January 2017 - October 2017
Software Developer, part-time - ***PHP, Symfony2***
Redesigned and implemented the legacy ERP system and its underlying framework.
Took PHP 5.x "spaghetti" code and delivered object oriented 7.x code.
Designed a framework for the ERP system based on Symfony2 – later migrated to Symfony3.
Added unit and functional testing to the system/development cycle.

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PROJECTS

Connected Components of Erdős-Rényi Graphs in Map-Reduce — Spring 2017

Sharif University, Iran - Undergraduate Dissertation - ***Theoretical Work, Map-Reduce***

Designed a distributed algorithm with best-to-date average *Map-Reduce* round complexity for finding Connected Components of a family of random Graphs (Erdős-Rényi graphs).

Multi-core Skyline Computation — Summer 2015

IPM, Iran - IEEE MEMOCODE 2015 Team-competition - ***C, OpenMP***

Designed and implemented a parallel algorithm to compute the *skyline* operation over a number of data points – we placed 2nd.

***Biased-attention* Image Classifier** — Spring 2019

Simon Fraser University, Burnaby BC - Deep Learning Course Project - ***Python, Pytorch, Slurm***

Designed a general attention module for convolutional neural networks.
Ran mass experiments on a server cluster using Slurm.
Shrunk a network by 30% while improving its accuracy.

Attention Based Neural Machine Translator with Relative Position Representation — Fall 2018

Simon Fraser University, Burnaby BC - NLP Course Project - ***Python, Pytorch***

Implemented the *Attention with Relative Position Representations* attention mechanism on the *Harvard Group*'s baseline attention-based Neural Network.

Web Crawler and Search Engine — Fall-Winter 2017

Sharif University, Iran - Information Retrieval Course Project - ***Python, Elasticsearch***

Created a crawler for journal articles *Researchgate.net*.
Used *Elasticsearch* to implement search on the crawled papers.

Custom Process Scheduling in the Linux Kernel — Spring 2014

Sharif University, Iran - Operating Systems Design Course Project - ***C, FreeBSD***

Implemented *Multi-level Feedback Queue* process scheduling in a *FreeBSD* kernel.