

FARZAD SHARIF BAKHTIAR

Nanaimo BC, Canada

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RELEVANT EXPERIENCE

> 1000 Hours:

Python, PHP 7 & Symfony, SQL, DOM-based JS, Git, OO Design Patterns, Algorithms and Data Structures

250-1000 Hours:

Java, C, Elasticsearch, Apache, Unit and Functional Testing

50-250 Hours:

Nodejs, MongoDB, Redis, Pytorch, Django, Slurm, REST

< 50 Hours:

AWS, Docker, Google Ads/Analytics

EDUCATION

M.Sc. Computer Science

Simon Fraser University, Burnaby BC, Canada

Supervisor Prof. Joseph Peters

Fall 2018 - Fall
2020

B.Sc. Software Engineering

Sharif University of Technology, Tehran, Iran

Supervisor Prof. Mohammad Ghodsi

Fall 2012 - Fall
2017

WORK EXPERIENCE

Videoboom Company, Tehran, Iran

Software Developer, full-time

January 2018
- May 2018

Peeyade Company, Tehran, Iran

Software Developer, freelance

October 2017 -
January 2018

Tezlabs Company, Tehran, Iran

Software Developer, part-time

January 2013 -
October 2017

PROJECTS

Biased-Attention Image Classifier

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.

Spring 2019

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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.

Real Time Video Advertisement Bidder/Server

Spring 2018

*Videoboom Company, Iran - **Python***

Designed an *OpenRTB*-compliant streaming video advertisement server with a micro-service architecture.

Implemented the DSP micro-service.

Geolocation Search Engine

Winter 2018

*Peeyade Company, Iran - **Python, Elasticsearch***

Designed and implemented a search system to search for locations/venues/landmarks based on the user's geo data.

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 retrieved papers.

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 for a family of random Graphs (Erdős-Rényi graphs).

ERP System Redesign

Winter 2014 -
Fall 2017

*Tezlabs Company, Iran - **Symfony, PHP 7, Dom-based JS***

Redesigned the legacy ERP system and its underlying framework.

Custom Process Scheduling for the Linux Kernel

Spring 2014

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

Modified the FreeBSD Linux kernel and implemented Multi-level Feedback Queue process scheduling in it.