

# FARZAD SHARIFBAKHTIAR

Nanaimo BC, Canada

1.604.442.6105, [FarzadSBakhtiar@gmail.com](mailto:FarzadSBakhtiar@gmail.com)

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## **Why I am applying for this position and what you can expect**

My professional experience has been with PHP, python, and enterprise/web-based systems. That said, I worked on distributed processing during my undergrad – I designed a Map-Reduce algorithm to analyze random graphs (2017).

I also took part in a high-performance computing team-competition in 2015. We came second with our multi-threaded algorithm. – See first two entries in Projects section.

There might be people with more recent experience for this position, but in the long run I know I would be as good as anyone. I have enough knowledge and a will to learn and do well.

I am good with people and can work well in a team. I test and document diligently.

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## **TOOLSET EXPERIENCE**

### **> 1000 Hours:**

Python, PHP7 & Symfony2, SQL, DOM-based JS, Git, OO Design Patterns, Algorithms

### **250-1000 Hours:**

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

### **50-250 Hours:**

Nodejs, MongoDB, Redis, Pytorch, Django, Slurm, REST, Micro-services

### **< 50 Hours:**

Hadoop, CUDA, OpenMP, 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 - **Python, OpenRTB**

Designed a real-time video ad auctioning server with a micro-service architecture. Implemented the DSP micro-service.

January 2018 -  
May 2018

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## **Peeyade Company, Tehran, Iran**

*Software Developer, freelance - **Python, Elasticsearch***

Built a search system to search for locations/events based on the user's geo data.

October 2017 -  
January 2018

## **Tezlabs Company, Tehran, Iran**

*Software Developer, part-time - **PHP, Symfony2***

Redesigned and implemented the legacy ERP system and its underlying framework.

January 2013 -  
October 2017

## **PROJECTS**

### **Connected Components of Erdős-Rényi Graphs in Map-Reduce**

*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).

Spring 2017

### **Multi-core Skyline Computation**

*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.

Summer 2015

### **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

### **Attention Based Neural Machine Translator with Relative Position Representation**

*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.

Fall 2018

### **Web Crawler and Search Engine**

*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.

Fall-Winter 2017

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## **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.