Irteza Arif Software Engineer

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TECHNICAL SKILLLS

Programming Languages: Java, Python (expert), JavaScript, Bash (proficient), C#, C++, MATLAB, VHDL (prior experience)

Web Technologies: NodeJS, AngularJS, ReactJS, Flask

Databases: MySQL, Mongo

Infrastructure: Docker, Docker compose, Ansible, Jenkins

PERSONAL PROJECTS

Android Apps Contributed to: Toronto Now, Tech Deals, Shopping Flyers Canada

Github: https://github.com/iarif123.portfolio: https://iarif123.github.io

WORK EXPERIENCE

Software Engineer

Index Exchange, Kitchener, Ontario

June 2016 - Present

- Developed a full stack NodeJS application to automate client side header-tag wrapper configuration creation.
- Developed backend aggregation and insertion engines for ad impression stats for hourly and daily stats lookup
- Reduced API response time by implementing dynamic container deployments and load balancing with Nginx
- Reduced file distribution time across ad servers by implementing p2p/torrent protocols.

Software Developer

Bazaarvoice, Austin, Texas

Sept 2015 - Dec 2015

- Reduced lookup time of catalog data by implementing an intermediary Mongo store to cache "high demand" data.
- Developed ETL routines and REST API and ETL jobs to load and access cached catalog data.
- Increased match accuracy of high demand data by implementing indexing based on decision tree learning.
- Reduced ETL time by implementing an algorithm based on semi-streamed index joins to maximize throughput.

Application Developer

Validus Research Inc., Waterloo, Ontario

Sept 204 - Dec 2014

- Wrote real-time revenue checker application using python and elastic search to query transaction logs.
- Reduced data aggregation time by developing algorithms to identify and remove redundant transaction data.
- Created a custom, single-page, responsive internal dashboard using Java, MongoDB and AngularJS.

Web Developer

Canadian Medical Protective Association, Ottawa, Ontario

Jan 2014 – April 2014

- Developed java applets for a patient-physician web portal, to facilitate real time updates of patient data.
- Designed and implemented live chatting to facilitate real-time patient-physician networking.
- Reduced video playback latency by implementing resizable iframes while keeping UI integrity.

EDUCATION

Bachelor of Applied Science (BASc), Electrical and Computer Engineering,

University of Waterloo, Waterloo, Ontario

Sept 2011 - Apr 2016

Relevant Projects:

- Implemented Traveling Salesman Optimization Algorithms using Tabu Search, Simulated Annealing, Genetic Algorithms, Particle Swarm Optimization and Ant Colony Optimization
- Used Altera's DE2 board to implement a simple WAV player
- Programmed LEGO Mindstorm NXT using C# to navigate through a maze