

SUMMARY OF QUALIFICATIONS:

Programming Language: Java, Javascript, Python, HTML/CSS, UML, Bash

Programming Skills: Applied Algorithms, Design Patterns, Java/J2EE, Servlet, Microservice, REST, Elasticsearch/Kibana, Kafka, Agile, Jenkins, Docker, GraphQL, ETL, i18n, Maven/Gradle, Git, React, Node

WORK EXPERIENCE:

Senior Software Engineer, Full-time, Okta, Remote, Canada

9, 2020 - Current

©Led a team to improve the new admin global search with Elasticsearch

- Architected the internal admin search for all types of searchable entities utilizing Elasticsearch with 36% performance boost (p95) and 8% increase in click through rate(CTR)
- Designed UI components and enabled tracking metrics to monitor user behaviors and CTR
- Collaborated with different teams to deliver multi-phrase projects in time and mentored developers to implement UI and tracking with Pendo

©Contributed to multiple authenticators to enhance to user experience

- Implemented new on-prem MFA/RSA registration workflows in Okta Identity Engine (OIE)
- Designed new PIV certificates configuration using PKIX algorithm

Software Engineer, Full-time, Tripadvisor, Ottawa, Canada

4, 2018 – 5, 2020

©Elasticsearch based search services to enhanced user experience

- Constructed and refined queries to accelerate the process of retrieving more relevant results
- Performed A/B test to fast iterate new features to increase the CTR
- Upgraded search infrastructure to Elasticsearch 7 in docker to support multiple-clusters, multi-language data, and pipelines for continuous indexing, promoting and pruning indices to enable the machine learning rank model and 10% deduction in latency

©Advanced search tracking pipelines

- Handled hundreds of millions of tracking records daily to hive and AWS S3
- Boosted the performance of ETL pipeline: 40% faster with 70% reduced disk space
- Redesigned search tracking payload to empower the machine learning model training
- Managed and migrated the tracking data in snowflake (TB level)

Software Engineer III, Full-time, Cisco System, Ottawa, Canada

4, 2017 – 4, 2018

©Created Jenkins pipelines with new customized plugins as the execute engine and integrated it into web based testing automation infrastructure with friendly user interface

©Designed a dashboard framework for monitoring and analyzing test cases using Elasticsearch and Angular

Software Developer, Full-time, Trend Micro, Ottawa, Canada

11, 2015 - 4, 2017

©Developed new features and SPA for a hybrid-cloud, enterprise security product using J2EE

EDUCATION:

M.A.Sc, University of Ottawa, Electrical and Computer Engineering, Canada

9, 2013 - 5, 2015

©Research on Wireless Sensor and Actor Network

GPA: 8.6/10

©Research Assistant / Teaching Assistant