HOSSEIN TORABI

Software Engineer

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Toronto, ON

EDUCATION

Master of Information Systems and Design

University of Toronto, Canada – 2020

BA Computer Science (Honours)

York University, Canada - 2014

BA Information Technology (With distinction)

CQUniversity, Australia - 2009

CAREER HIGHLIGHTS

- Highly motivated and accomplished CS professional with 4+ years of professional work experience in software development in Node.js environment
- Front-End team lead and scrum master for IBM Cognos Analytics mobile app project
- Participated in the IBM Call for Code global challenge by creating an iOS app using SwiftUI that notifies users if they came in contact with someone who has been tested positive for COVID-19 (June 2020) More Information: https://youtu.be/yXUU2Mtraao

SKILLS

- React
- React Native
- JavaScript
- Express.js
- SonarQube
- Jenkins
- HTML, CSS, SASS
- Java
- C/C++
- Python

PROFESSIONAL EXPERIENCE

Software Engineer

Jan 2015 – present
IBM Canada (Toronto)

Currently working as the front-end development lead for the new IBM Cognos Analytics mobile app. My responsibilities include production, modification, and maintenance of application user interfaces by bringing designers' concepts to life, maintaining software workflow management using GitHub and SonarQube as well as Jenkins for CICD.

I have decent knowledge and experience in backend services within Node.js environment using express.js and have worked on creating API end points for CA mobile app. My prior Java experience has also enabled me to build restful web services using Spring.

In the past, I created and maintained a modular, scalable and customizable cross-portfolio design toolkit using React framework in Node.js environment. The toolkit has been adopted by IBM Cognos Analytics and has significantly enhanced UI performance ensuring the consistency and maintainability of the product.

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AWARDS AND PATENTS

- **Patent P201706894US01**

  Smart Waste Management: Intelligent sorting of materials that include ceramic

  Issued: May 9, 2019

- **Winner of IBM student video competition**
  Summer 2014

  http://youtu.be/yk4Y-TlGLGw

STRENGTHS

Teamwork | Responsibility | Adaptable | Creative | Optimist | Dedicated | Analytical | Detail oriented | Tactful

INTERESTS

- Visual effects and motion graphics
- Drones
- Reading
- Travel
- Exercise
- Photography

PROFESSIONAL EXPERIENCE CONTINUOUED

DB2 Quality Assurance Developer Intern

May 2013 – Sep 2014
IBM Canada (Markham, Canada)

Worked as part of IBM's worldwide database management system (DB2) Quality Assurance team, working on the latest DB2 features by designing, developing and executing test scenarios within a highly automated environment

UNIVERSITY PROJECTS

SQL Query Processing Optimization in DB2 Summer 2014

IBM / York University

I worked on a joint project between IBM and York University and created a new rewrite rule to optimize queries with nested CASE expressions. The new technique flattens nested CASE expressions recursively by merging the condition part of each WHEN clause with the one in the parent node and replacing the action part of the parent with the action part of its child. On a 2 Billion row table with 50 CASE expressions that had on average 3 levels of nesting, the flattened CASE expressions improved the performance by 5X from ~2500s to ~500s.

Android App for York university phone directory Winter 2013

York University

The new design of the UI significantly improved search and navigation and assisted users in narrowing down their search domains. Then, a user study was conducted to compare the performance of the new app with the one created by York University. It was revealed that searching through the new interface was 15% faster than the existing one. Furthermore, the mean number of interactions required to complete a given search through the new interface was 39% less than the one with the existing interface. In addition, the number of failed searches through the new app was half of that of the existing one.

E-Commerce system for online shopping Fall 2013

York University

The E-commerce web application was built on a 3-tier system and followed the Model-View-Controller architectural pattern which separates the presentation (JSPX, CSS, JS, Controller), business logic/processing (Models) and data management functions (DB, XML marshal/unmarshal). The system provides login and search features for improving clients' online shopping experience.