Frank Tian

(416) 994-7083 | tianfeifrank@outlook.com | 7 Calvin Ave, Toronto ON
Profile: https://franktian0906.github.io

SUMMARY OF QUALIFICATIONS

- A recent graduate with a solid programming background and looking for junior developer/system or program analyst positions.
- Knowledge and experience of Software Design and Architecture, Computer Network, Operating Systems, Database design and development etc
- Hands-on experience in front-end web applications: utilized coding language in JavaScript(JQuery), CSS(Sass), HTML, Angular and ReactJS framework to generate user-experienced page effects and create demo displacement web case and maintain the stability of website by implementing testing skills
- Great knowledge of back-end programming Java Spring, PHP, and MySQL to maintain and manage the database while using RESTful and JSON form to fulfill the communication request
- Experienced in mobile applications by integrating and designing Android Applications using Java, Android SDK, Android Studio, third-party API (ButterKnife, OkHttp, Google Map, Picasso, RXJava, MPAndroid Chart) to complete a list of tasks including, data collection, data displacement, local data base management, data communication, data selection etc.
- Proficient in Java, JavaScript, JQuery, AJAX, HTML, CSS(SASS), PHP, Android SDK, React, Angular, Bootstrap, NodeJS, Java Spring Boot, C#, ASP.NET, MySQL(RDBMS), REST API, Eclipse, Android Studio, Visual Studio Code, IntelliJ IDEA, NetBeans,GIT
- Familiar in multiple operating system: Windows (Vista, XP, 7,10), Linux, MacOS

EDUCATION

Master of Applied Science (Computer Engineering) GPA 3.7/4.0 Graduated June 2018
Memorial University, St. John's, NL

WORK EXPEREINCE

Teaching Assistant, Memorial University Jan 2017 - Apr 2017

- Collaborated with professor to identify Java code and developed academic documents in multiple stages of SDLC development.
- Prepared course material related to Java programming content including syntax, architecture, algorithm, thread and array etc.
- Organized case practice activities for student to advance their coding and testing skill in using Java with MVC frame design pattern.
- Supervised case practice of Java software development in MVC frame design pattern, utilized JFrame library to generate item image and Eclipse IDE (Integrated development environment) to practice code writing
- Generated Java software development testing application practice in JUnit to test the overall performance of Java application including identifying incorrect input value, evaluating the accuracy of attempting results, implementing debug techniques
- Reviewed Java coding, testing case performance and graded marks while providing detailed feedbacks for demo case displacement

RELATED PROJECTS

Tracking System(ReactJS, NodeJS, Express, JavaScript, HTML, CSS)

- The application is used to show the tracking routes on the grid map, and also calculate the the time
- Used back-end in NodeJs and Express, to get tracking information including routing, driver position,

speed limitation, and communicate with front-end by Restful API and JSON form

- Used front-end in ReactJs, JavaScript, HTML and CSS, to organize received data and show the data on the map with specific position;
- Getting the JSON data by utilizing the http API and fetching the data into React component life cycle;
- Through React-vis API and CSS, the data and structure were rendered on a grid map; Used Bootstrap API to build the controller with better performance, and update the map dynamically and recalculate the rest of tracking time.

The Sport Partner Mobile Application (Android SDK, Java, PHP, MySQL)

- Created mobile application using Java and Android Studio IDE which collects sports data.
- Utilized RESTFUL API in JSON form to provide structural support for Front-end and Back-end.
- Front-end, Java coding in Android SDK based on MVP design pattern.
- For the Back-end, fetching and creating JSON package with JavaScript for front-end part and operating MySQL database for storing users' information and sports data in PHP
- The Third-Party API: MPAndroid Chart API for drawing the line chart and pie chart; OkHttp API for setting RESTful with JSON form; ButterKnife API for succinct and readable code
- Built the MySQL database to set ID (integer) as primary key on user table and set time-stamp as primary key on sport data table with PHP to read and write in software mobile development
- Run JUnit and Espresso testing on user data collection, communication function for data receiving and UI test and fix and debugged coding errors

Front-end Web Design (JavaScript, HTML, CSS, JQuery)

- Utilized HTML and CSS to design and arrange with Bootstrap front-end framework, and added JavaScript for the dynamic animation to improve web user experience
- Used PHP in MVC design pattern in the database while regularly maintaining the existed database for web development.
- For the sport partner app project(Java for Android, PHP, MySQL), sliding shutters effect and popping content up automatically by mouse hover effect implemented by using front-end development language of JavaScript and CSS
- For the circuit simulation system used grid padding with CSS and fading out hover effect by JavaScript
- For the TakeHome app (display the airline information for users using Google Maps API) by playing external video automatically on HTML and improve user experience using CSS

The Circuit Simulation Java Software (Java, JFrame, MVC design)

- Simulated circuit function using Java which a user draws a circuit diagram by building gates and links. After setting input value and linked components (AND gate, OR gate, links) the user can get the result
- Utilized MVC design pattern based on Java and JFrame library for the software development
- Used MVC to initialize the window in providing the panel and navigation for users; Designed Model part to deal with the pattern of components (like AND gate, OR gate, links) and the electronic logic on the components; Utilized Controller part to pass the signal from view to model and let the Model display the result on the View panel
- Drew the variant circuit gates with JFrame library on the panel; Dragged the gates and links to automatically adapt and transport the output value in Java software development