Yilun Song (Kenneth)

Software Engineering

TECHNICAL SKILLS

|  |  |  |
| --- | --- | --- |
| **Programming Language** | **Experienced Areas** | **Libraries & Utilities** |
| * HTML5/CSS/JavaScript * Java * Python & Perl * MySQL * C | * Web applications * Cross-platform mobile App * Android mobile App * Scripts and Tests * GUI development | * JQuery * Bootstrap * GWT * ReactJS * React Native * Websocket |

EDUCATION

|  |  |
| --- | --- |
| **University of British Columbia**  ***Bachelor of Applied Science – Software Engineering***  **Overall GPA: 3.95/4.33 ( A )** | Date of graduation: May, 2017 |

CO-OP WORK EXPERIENCE

|  |  |
| --- | --- |
| **Cumul8 Technologies Inc.**  ***Front End Developer (Data Visualization, ReactJS, React Native, Html, Css)*** | **May, 2015 – December, 2015** |

* Built complex **data visualization** related web components using **React** and **Flux**
* Added real time updating feature using **Websocket**
* Fixed bugs on the back end side written in **Go** language
* Built front-end screens for a mobile app using **React Native**

|  |  |
| --- | --- |
| **Broadcom Corporation**  ***Test Script Developer & Engineering Testing Assurance* (Tcl, Perl,Git)** | **August, 2014 – April, 2015** |

* Developed **automated test scripts** for nightly regression tests to have the requirements of our products automatically tested
* Run and Reported nightly regression test results in a daily basis to report software bugs to the development team
* Developed scripting tools to automatically parse our test results with no manual efforts
* Learned new language Tcl and Perl to be able to write automated test scripts independently

|  |  |
| --- | --- |
| **UBC ECE– Cisco LLFI fault injection tool**  ***GUI Developer* (JAVA, Python, & C++)** | **May, 2014 – August, 2014** |

* Expended features on the GUI tool using **JavaFX** to make it simple and easy to use ([Demo Link](https://github.com/DependableSystemsLab/LLFI/wiki/Get-Started-with-using-LLFI-with-GUI))
* Developed and edited existing scripts of the LLFI tool to support more features
* Added informative instructions and notifications in the GUI to make the product user-friendly
* Developed scripts in Python to automate some duplicated work

|  |  |
| --- | --- |
| **AutoNavi Software Co., Ltd.**  ***Quality Assurance (C, C++)*** | **July, 2013 – September, 2013** |

* Designed and programmed a simple server that receives commands from users and sends back results to the client side
* Designed a program that parsed the online log files to extract user information with encrypting and decrypting techniques
* Debugged and tested the programs using gcc, g++, gdb, and valgrind
* Cooperated and communicated effectively with other team members; worked independently under mineral guidance

TECHNICAL PROJECTS

|  |  |
| --- | --- |
| **UBC LLFI Web Service – Personal Project**  **Full Stack Developer (React, JQuery, NodeJS)** | **September, 2016 – Present** |

* Building a web application using **React** from scratch for a UBC research project LLFI
* Designed the architecture of the application in a modular way and followed RESTful API standards
* Implementing the **back-end** server that executes scripts for front-end requests using **NodeJS**

|  |  |
| --- | --- |
| **Reach Social Mobile App – School Project & Contract Project**  **Mobile App Developer (React Native, Android & iOS)** | **September, 2016 – Present** |

* Building a **cross-platform** app from scratch for a start-up company using **React Native** that provides the ability to do different class activities for students
* Designing the **UI/UX** for the app
* Developing key features of the app, e.g. file upload/sharing, group conversation thread
* Initialize team work with other team members and make sure the product can be delivered on time

|  |  |
| --- | --- |
| **Website Development – Personal Project**  **Front End Developer (React, Bootstrap, JQuery, Html, Css, Js)** | **July, 2016 – August, 2016** |

* Built and designed my portfolio website with React (Link: <http://syltaxue.com>)
* Built a website for a BC registered non-profit organization (Link: <http://lovecaravan.ca>)
* Gained experience on the full life cycle of website development and hosting

|  |  |
| --- | --- |
| **Security Camera Android App – School Project**  **Android Developer (Java)** | **March, 2013 – May, 2013** |

* Designed a security camera **android app** that is able to control a remote RaspberryPi camera through Wi-Fi network as well as streaming the video from the camera
* Designed the UI of the app, analyzed the users habits about how they want to use the app, taking care of the relationship between each activity
* Implemented and designed the XML file of each activity page
* Initiated team activities, helped the team to allocate the workload, and ensured the delivery of the project

AWARDS

|  |  |
| --- | --- |
| **Work Learn International Undergraduate Research Award** – awarded to 5 international students at UBC each year (same as NSERC). | **2014** |
| **UBC Engineering Dean’s Honor List** – for students with a GPA of at least A- each year | **2011 – 2016** |
|  |  |

ACTIVITIES AND INTERESTS

* Passionate and enthusiastic about programming. I transferred from Electrical Engineering to Computer Engineering after I found my passion in programming.
* Interested in big data and cloud computing areas (data mining, machine learning, and data visualizations). I think there will be tons of smart devices and apps that will provide personalized service in the future.
* I am a fast learner, I taught myself a lot of programming languages, and learned many new languages in my previous work. I can quickly catch up the required technical skills that I do not have or the ones that I have not touched for a long time.