Yilun Song (Kenneth)

Software Engineering

TECHNICAL SKILLS

|  |  |  |
| --- | --- | --- |
| **Programming Language** | **Experienced Areas** | **Libraries & Utilities** |
| * HTML5/CSS/JavaScript * Python & Perl * Java * Swift * MySQL * C | * Web applications * IOS 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*** | 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)** | **Aug, 2014 – April, 2015** |

* Developed **automated test scripts** for nightly regression test to have the requirements of our products fully 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 programming language, Tcl, and scripting language, Perl, with minor help to be able to write automated test scripts independently

|  |  |
| --- | --- |
| **UBC ECE– Cisco LLFI fault injection tool**  ***GUI Developer* (JAVA, Python, & C++)** | **May, 2014 – Aug, 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 server that receives commands from users and sends back results and commands 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
* Learned basic and frequently used shell commands/script in Linux Centos system
* Cooperated and communicated effectively with other team members; worked and learned independently under mineral guidance

TECHNICAL PROJECTS

|  |  |
| --- | --- |
| **UBC LLFI Web Service**  **Full Stack Developer (React, JQuery, Node, MongoDB)** | **Sep, 2016 – Present** |

* Building a **front-end** web GUI for the LLFI tool following the GUI of desktop version using **React**
* Hosting the **back-end** server that executes scripts for front-end requests using **NodeJS**
* Building a simple **database** monitoring different user models using **MongoDB**

|  |  |
| --- | --- |
| **Reach Social Mobile App**  **Mobile App Developer (Swift, IOS)** | **Sep, 2016 – Present** |

* Building an **IOS** app using **Swift** that provides the ability to do different class activities for students
* Designing the **UI/UX** for the app
* Developing key features for the app, e.g. file upload/sharing, group conversation thread

|  |  |
| --- | --- |
| **Website Development**  **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**  **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 team to be able to meet the deadline

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 services in the future.
* Interested in app design and development. I believe UI is the key of a software product.
* Interested in AI and machine learning areas. There will be lots of AI devices invented and deployed that can make our life much easier.
* 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.
* Please interview me to let me talk more about myself and how I can fit in your team.