Woo Kim

Tech Diploma | Computer Systems | Second year
Bachelor of Applied Science | Electrical Engineering | New Grad

CONTACT

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SKILLS

Java • JavaScript • C • PHP • HTML
CSS • SQL • NoSQL • XML • Bootstrap
jQuery • Android • iOS • Ionic • Meteor
Node.js • jUnit • Git • REST API • Azure
Heroku • JIRA • Kanban • Eclipse IDE

EDUCATION

BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY
Diploma, Computer Systems
Expected May 2018 | CGPA: 4.33

UNIVERSITY OF BRITISH COLUMBIA
BASc, Electrical Engineering
Grad. May 2016 | Major GPA: 3.20

EXPERIENCE

ECHOFLEX | Contract Software Developer
Dec. 2016 – Jan. 2017 | Vancouver, BC
- Built an Android app that parses BLE Advertising. Organized scan settings to adapt to different BLE enabled sensors and correctly scan their Manufacturer Specific Data
- Implemented receiver logic in Java to enable Bluetooth activities, scan in low latency mode, and display all connectable, non connectable Bluetooth devices and their data on screen in real time

BC HYDRO | Student Developer
Sept. 2015 – Apr. 2016 | Burnaby, BC
- Tracked and fixed bugs, redesigned the user interface for better efficiency and maintainability of all user submitted reports, re-factored the code for Tracking System and the Hazard Reporting web and mobile-apps
- Developed a string matching Java program to efficiently query for reports using Rabin-Karp string search algorithm
- Divided responsibilities to complete functional features in parallel and maintained our projects using version control

BCIT | On-demand tutor
Sept. 2016 – Dec. 2016 | Burnaby, BC
- Responsible for tutoring 8 BCIT students in the Computer Systems Technology program. Materials focused on intro to Java, PHP web development, and applied mathematics
- Provided detailed explanation and reported areas for improvement

PROJECTS

HAZARDALERT | Java, MongoDB, Meteor.js, HTML, CSS
- Completed a prototype hazard prevention app using Meteor.js for both the iOS and web app
- Fully integrated virtual object databases to allow videos, pictures, and text reports to be submitted
- Integrating priority ranking system for interactive and efficient document query experience
- Incorporated offline features using GroundDB, demonstrating quicker re-connectivity and saving user submitted forms offline

WEATHERME | Java, Android, JavaScript, Rest API, XML
- Built an Android app that displays real-time weather forecast using REST API
- Integrated automatic adjustments to user's change of location to nearby detectable cell tower or a Wi-Fi node for accurate results

PID 2D CLAW MACHINE | C, 8051 Assembly, Altium, Solidworks
- Collaborated with 3 ECE students to craft a responsive 2-D arm Servo claw machine
- Responsible for integrating H-bridge current drivers with dual 8051 PID controllers to output logic-evaluated pulse width modulated powers

EM TETHERROBOT | C, 8051 Assembly, Digital Logic
- Worked in a team of 4 CE students to develop an autonomous EM robot that listens to user defined commands
- Responsible for writing C code to read the distance between TX/RX remotes and provide simple state machine logic for the moving robot

MOTOR CONTROLLER | C, Digital Logic, Electronics Design
- Built an isolated motor controller using a bi-directional MOSFET H-Bridge circuit and a PWM controller
- Refined the controller to be utilized by TetherRobot and 2D servo robot projects