Lisa Kirby

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EDUCATION

Sept. 2015 - May 2020 **University of British Columbia (UBC), Vancouver**
B.Eng. - Computer Engineering, 80.1% average

TECHNICAL KNOWLEDGE

Programming Languages:	Javascript (Vanilla, Node.js, React Native), SystemVerilog, C/C++, C#, Java, Python
Markup/Query Languages:	HTML, CSS, ColdFusion, SQL, Twig (Drupal)
Tools, Frameworks, & Libraries:	Git, JQuery, ASP.NET w/ Entity Framework, Bootstrap, AJAX, Firebase/Firestore

TECHNICAL EXPERIENCE

Oct 2018 - Current **Software Engineer for UBC BEST (Biomedical Engineering Student Team)**
University of British Columbia, Vancouver, BC

- Utilized C# and MATLAB to build an application that collects real-time data from two accelerometers and applies filtering and signal processing to isolate a patient's respiratory rate

May 2018 - Sep. 2018 **Web Applications Developer for the Canadian Federal Government**
Public Services and Procurement Canada (PSPC), Vancouver, BC

- Built and deployed the Pacific Pilotage Authority website (http://www.ppa.gc.ca)
- Built and deployed a survey retrieval API (now used in production: http://www2.pac.dfo-mpo.gc.ca/avdpth_srch-eng.html?page=sdb)

May 2017 - Sept. 2017 **Web Applications Developer & IT Special Projects for the Canadian Federal Government**
Public Services and Procurement Canada (PSPC), Vancouver, BC

- Built a web interface that enables users to update relevant SQL database tables using AJAX and ColdFusion – site is now used in production
- Worked within a team to develop and optimize the "Timeline Tool" project – a web application used to record, display, and schedule Government initiatives on a graphical timeline using the ASP.NET with Entity Framework in the Model-View-Controller (MVC) architectural pattern

TECHNICAL PROJECTS

Sep. 2018 - Dec 2018 **UBSafe - A Cross Platform Mobile Application**
Node.js, React Native, Google Cloud Firestore, Jest, Travis CI

- Implemented a client-server REST system that allows users to monitor each other's locations in real-time up to a selected destination, and to send location-dependent safety alerts/notifications
- Lead a team of 4 in the completion of requirements definition, architecture design, implementation, testing, and deployment of the application
- Application was ranked 1st place out of 28 competing apps in UBC's Software Engineering course

Jan. 2018 - April 2018 **Hardware Note Detection of Impure Tones**
C, SystemVerilog, Verilog, VHDL

- Built a system that performs accurate & fast frequency detection of impure tones using a hardware (FPGA) Fast Fourier Transform (FFT) run on a De1-SoC

March 2017 - April 2017 **Cereal Monitor – A Smart Pantry Scale**
HTML/CSS, JavaScript, Python/Raspberry Pi, C/Arduino

- Implemented an Internet of Things application using an Arduino for data collection and a Raspberry Pi as a server to actively monitor and log grocery consumption
- Built an intuitive GUI which utilized JavaScript to retrieve and display python-parsed scale data