

Lisa Kirby

EDUCATION

Sept. 2015 - May 2020	University of British Columbia (UBC), Vancouver Bachelor of Applied Science in Computer Engineering, 94% average (2018-19) Dean's Honor List Trek Excellence Scholarship (awarded to top 5% in the Faculty of Applied Science)
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TECHNICAL KNOWLEDGE

Programming Languages:	Javascript (ES6/7, Node.js, React, React Native), C/C++, C#, Java, Python
Tools, Frameworks, & Libraries:	Git, JQuery, ASP.NET w/ Entity Framework, Bootstrap, AJAX, Firebase/Firestore

TECHNICAL EXPERIENCE

May 2019 - Current	Undergraduate Researcher (NSERC Research Award, IBM Centre for Advanced Studies) IBM & The Reliable, Secure, and Sustainable Software Lab UBC, Vancouver, BC <ul style="list-style-type: none">Performed a comparative analysis of static and dynamic analysis-aided techniques that automate the process of splitting monolithic software applications into independently-deployable microservicesAccepted exhibit at IBM CASCON x EVOKE International Conference, 2019
Oct 2018 - Current	Lead Software Engineer Vancouver General Hospital & the Medical Applications and Software Team, Vancouver, BC <ul style="list-style-type: none">Lead a team of 7 to design and implement a cross-platform mobile and web application that bridges the communication gap between emergency physicians and first respondersUtilized 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 Public Services and Procurement Canada (PSPC), Vancouver, BC <ul style="list-style-type: none">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 Public Services and Procurement Canada (PSPC), Vancouver, BC <ul style="list-style-type: none">Built a web interface that enables users to update relevant SQL database tables using AJAX and ColdFusion – site is now used in productionWorked 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. 2019 - Current	Trial Matcher - Optimization of VGH Clinical Trial Recruitment through a Mobile Application Node.js, React.JS, React Native <ul style="list-style-type: none">Designed and am currently implementing a cross-platform mobile application that generates a de-identified screening survey for clinical trials at the Vancouver General Hospital
Sep. 2018 - Dec 2018	UBSafe - A Peer Location-Monitoring Cross-Platform Application Node.js, React Native, Google Cloud Firestore, Jest, Travis CI <ul style="list-style-type: none">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/notificationsApplication was ranked 1st place out of 28 competing apps in UBC's Software Engineering course