

Denis Trailin

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EDUCATION	University of British Columbia , Vancouver, British Columbia Bachelor of Science (B.Sc) in Computer Science	Sep 2014 – May 2019
WORK EXPERIENCE	Bloomberg LP , New York City, New York <i>Software Engineering Intern - Feeds Distribution Infrastructure</i> <ul style="list-style-type: none">▪ Fixed major point of failure for real time news feeds while keeping server high performance and backwards compatible▪ Updated distributed uniqueness checking server written in C++ to use an arbitrary number of nodes instead of the previous limit of two▪ Added dynamic leadership switching and leadership elections to the uniqueness server using Apache Zookeeper University of British Columbia , Vancouver, British Columbia <i>Teaching Assistant</i> <ul style="list-style-type: none">▪ Taught CPSC 213, Introduction to Computer Systems, a course focused on C and assembly▪ Led labs of 30 students, graded assignments and invigilated exams Hootsuite , Vancouver, British Columbia <i>Co-op Software Developer - Android Team</i> <ul style="list-style-type: none">▪ Supported transition from Java to Kotlin as main Android programming language▪ Worked with other team members to push out critical features such as YouTube streams, Publisher approval streams, and re-auth for the core app▪ Wrote 2 blog posts for the official Hootsuite engineering blog on unit testing with RxJava (link) and Kotlin (link).▪ Received the maximum possible overall rating of “excellent” in Co-op evaluation from supervisor Trace Intelligent Systems , Calgary, Alberta <i>Contractor</i> <ul style="list-style-type: none">▪ Integrated existing open source object tracking C++ libraries into a common framework for deployment to drones and tripod based cameras▪ Performed performance and accuracy profiling of vision tracking algorithms▪ Created a human detection model using Dlib’s machine learning functionality	May 2017 – Jul 2017 Jan 2017 – Present Jan 2016 – Aug 2016 Jul 2015 – Aug 2015
EXTRA CURRICULAR ACTIVITIES	UBC Sailbot , Vancouver, British Columbia <ul style="list-style-type: none">▪ Worked on autonomous sailboat that broke record for farthest autonomous crossing of Atlantic▪ Built obstacle detection software for thermal cameras using computer vision and machine learning in C++. System had a 0.001% false positive rate (which minimized unnecessary movements) and a detection rate of 40%.▪ Created microservice for satellite boat communication in Javascript using Node.js▪ Worked on web services for receiving and analyzing boat information written in Sails.js and Angular.js FIRST Robotics Team 4334 , Calgary, Alberta	Sep 2015 – Present Sep 2012 – May 2014
PROJECTS	Resupplie , nwHacks, Vancouver, British Columbia <ul style="list-style-type: none">▪ Built an Internet of Things fridge that uses deep learning to detect food and KNN to recommend recipes and ingredients based on the fridges contents▪ Won the CA Technologies 2nd prize for Best IoT hack Baby Monitor , nwHacks, Vancouver, British Columbia <ul style="list-style-type: none">▪ Built an Internet of Things baby monitor using Android, Node.js, and the Intel Edison▪ Won 3rd place overall and the CA Technologies prize for Best IoT App with Mobile Interface	Mar 2017 Feb 2016