

Denis Trailin

denis.trailin@gmail.com • denis.trailin.ca

EDUCATION	University of British Columbia , Vancouver, British Columbia	Sep 2014 – May 2019
	Bachelor of Science (B.Sc) in Computer Science	
	National University of Singapore , Singapore	Jan 2018 – May 2018
	Exchange Student	
WORK EXPERIENCE	Microsoft , Redmond, Washington	Jul 2019 – Present
	<i>Azure Service Fabric - Software Engineer</i>	
	<ul style="list-style-type: none">Working on Service Fabric, an orchestrator which is used by thousands of services across Microsoft and runs across millions of cores	
	Microsoft , Redmond, Washington	Jun 2018 – Aug 2018
	<i>Azure Service Fabric - Software Engineering Intern</i>	
	<ul style="list-style-type: none">Increased developer visibility on excessive tracing in Service Fabric, a major problem impacting production observabilityBuilt an extendable and configurable tool using C# to run simulated Service Fabric loadsCreated tests to detect increases in tracing across builds by measuring statistical deviation from a baseline	
	Bloomberg LP , New York City, New York	May 2017 – Jul 2017
	<i>Feeds Distribution Infrastructure - Software Engineering Intern</i>	
	<ul style="list-style-type: none">Fixed major point of failure for real time news feeds while keeping the system high performance and backwards compatibleUpdated distributed uniqueness checking server written in C++ to use an arbitrary number of nodes instead of the previous limit of twoImplemented dynamic leadership switching and leadership elections to the uniqueness server using Apache Zookeeper	
	Hootsuite , Vancouver, British Columbia	Jan 2016 – Aug 2016
	<i>Android Team - Co-op Software Developer</i>	
	<ul style="list-style-type: none">Supported transition from Java to Kotlin as main Android programming languageWorked with other team members to push out critical features such as YouTube streams, Publisher approval streams, and re-auth for the core appPublished 2 blog posts for the official Hootsuite engineering blog on unit testing with RxJava ↗ and Kotlin ↗	
	University of British Columbia , Vancouver, British Columbia	Jan 2017 – Dec 2017
	<i>Teaching Assistant</i>	
	<ul style="list-style-type: none">Taught CPSC 213, Introduction to Computer Systems, a course focused on C and assemblyLed labs of 30 students, graded assignments and invigilated exams	
	Trace Intelligent Systems , Calgary, Alberta	Jul 2015 – Aug 2015
	<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 camerasPerformed performance and accuracy profiling of vision tracking algorithmsCreated a human detection model using Dlib's machine learning functionality	
	UBC Sailbot , Vancouver, British Columbia	Sep 2015 – May 2019
	<ul style="list-style-type: none">Worked on autonomous sailboat that broke the record for farthest autonomous crossing of AtlanticBuilt obstacle detection software for thermal cameras using computer vision and machine learning in C++Created microservice for satellite boat communication in JavaScript using Node.jsWorked on web services for receiving and analyzing boat information written in Sails.js and Angular.js	
	FIRST Robotics Team 4334 , Calgary, Alberta	Sep 2012 – May 2014
	<ul style="list-style-type: none">Joined the team that won 2 regional competitions and a division at the world championships as a founding memberWorked on robot code and implementing key systems such as PID in Java	
	Resupplie	Mar 2017
	<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 fridge's contentsWon the CA Technologies 2nd prize for Best IoT hack at nwHacks	