

# DAN D. KIM

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## EMPLOYMENT

June 2018 to Current

**Coveo** · Software Developer, Back-End · Montreal, QC

- Diagnosed and slashed the run-time on a back-end security service from 1400 ms to 0.3 ms through implementing efficient data structures
- Slashed the memory usage of a back-end service down from 2GB to a constant 250MB by implementing pagination and generators with LINQ.
- Currently accelerating the development of back-end data-extraction projects

Sept. 2017 to Dec.  
2017

**Videri Inc** · Mobile Software Developer, Intern · Montreal, QC

- Headed the R&D of 3 Android apps for demonstrations, one of which was shipped out to CES 2018
- Slashed the delivery date of an application from 4 weeks to 2 weeks by introducing scalable code with Retrofit, RxJava2, and GSON adapters
- Reduced bugs and boiler-plate code by around 20% by migrating to Kotlin from Java
- Oversaw smart-home integrations by linking Alexa skills to Android apps using AWS platform (EC2, Lambda)

Sept. 2016 to Dec.  
2016

**Nuance Communications** · Software Engineer, Intern · Montreal, QC

- Administered the stability on the core C++ data pipeline by writing 900+ Unit and Integration Tests using Mockito and Google Test Suite for Android/Linux platforms in Java and C++

Jan. 2016 to Apr. 2016

**Genetec** · Software Developer, Intern · Montreal, QC

- Refined the team's C# .NET software package by fixing 25% of all existing & newly-reported bugs
- Deployed features in scalable code on the MVVM architecture using C#, WPF, LINQ, and Elasticsearch

## EDUCATION

Sept. 2012 to June  
2018  
2018

**University of Waterloo**  
B.S.E. Computer Engineering

## AWARDS

Sept. 2018

**McGill Artificial Intelligence Society** · Implement AI 2018 2nd Place

- With 3 other software developers, came up with an Android app that could diagnose plant diseases with a single photo.

Jan. 2018

**Krate** · UofTHacks2018 Centralize the Decentralizers by Krate

- With 1 other software developer and 1 designer, came up with a relevant smart home assistant that offers a new experience of going through recipes.

Dec. 2017

**Informa** · YHacks2017 Informa Challenge 1st Place

- With 1 other software developer, 1 physicist, and 1 business entrepreneur, created a Facebook chatbot that would predict which fields on Indiegogo are predicted to have growth in \$\$\$.

Jan. 2017

**Founders Institute** · Hackatown2017 Founders Institute Award

- With 2 other software developers and 1 designer, created an Android app that allowed people to find others to walk home together with.

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## PROJECTS

Sept. 2018 to Sept. 2018	<b>Green Detect [Implement AI 2018 2nd Place]</b> <ul style="list-style-type: none"><li>• Android application that identifies potential diseases from a single picture of a leaf.</li></ul>
Jan. 2018 to Jan. 2018	<b>Let's Eat [UofTHacks2018 Krates Winner]</b> <ul style="list-style-type: none"><li>• Google Home and an Android app working as a system, showing recipes based on food that is soon to expire.</li><li>• RxAndroid, RxKotlin, Retrofit, NodeJS</li></ul>
Dec. 2017 to Dec. 2017	<b>Trendy [YHacks2017 Informa Challenge 1st Place]</b> <ul style="list-style-type: none"><li>• Facebook chat bot that predicts which categories on Indiegogo will have growth in funds.</li><li>• NodeJS, FacebookSDK, Heroku, Python</li></ul>
Jan. 2017 to Jan. 2017	<b>Walking Buddy [Hackatown2017 Founders Institute Winner, Top 5]</b> <ul style="list-style-type: none"><li>• Android application that helps users who fear walking home alone.</li><li>• Java, Firebase, Google Maps API</li></ul>
Apr. 2017 to Apr. 2017	<b>Savescription [WearhacksKW2017 Top 5]</b> <ul style="list-style-type: none"><li>• Web app that allows doctors to send automated prescription reminders to patients.</li><li>• jQuery, Bootstrap, Firebase, Twilio API, HTML, CSS</li></ul>
July 2018 to Sept. 2018	<b>Dancountant [Personal Project]</b> <ul style="list-style-type: none"><li>• Android app that simplified tracking my expenses by automatically parses SMS purchase alerts from banks for price, date, and vendor.</li><li>• Using patterns to categorize purchases automatically.</li><li>• Uploading the data to an online spreadsheet designated in the settings.</li></ul>
Apr. 2017 to Mar. 2018	<b>DeafBand [Engineering Capstone Project]</b> <ul style="list-style-type: none"><li>• Implemented a real-time audio classification application by training a convolutional neural network model using Google's AudioSet</li><li>• Designed to help users recognize dangerous life-threatening situations through a wearable device</li><li>• Developed using Tensorflow, Python, Flask, Google Compute Engine, AudioSet</li></ul>

## VOLUNTEERING

Sept. 2017 to Current	<b>Montreal Korean Language and Culture Centre · Web Developer · Montreal, QC</b> <ul style="list-style-type: none"><li>• Solely operating the Search Engine Optimization of the community center's website</li><li>• Executing delivery of sponsor's requests</li></ul>
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## SKILLS

<b>PROGRAMMING LANGUAGES</b>	Java, C#, Python, C++, Javascript, Kotlin, ReactJS, React Native
<b>ANDROID DEVELOPMENT</b>	RxJava, Kotlin, RxAndroid, Retrofit, GSON Adapters, MVP Architecture, MVVM Architecture
<b>DATA SCIENCE</b>	Tensorflow, Keras, Neural Networks, CNN, LSTM, GRU, Python, Pandas
<b>WEB DEVELOPMENT</b>	NodeJS, Python Flask, AWS, Google Cloud, Redis, MySQL, Firebase