

# DANIEL PENG

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## EXPERIENCE

### Software Engineer

MAY 2019 - AUG 2019

#### Connected

- Created new conversation flows for a top North American music provider's Alexa skill using **Node.js**, **AWS Lambda**, and testing with **Jest**
- Collaborated with product/design teams to improve skill interaction model, helping to improve channel-matching success rate by ~60%
- Led development of an automated voice testing tool using **Python**, **C++**, and **Alexa Voice SDK**, improving test consistency and reducing testing time by over 95%
- Proposed and implemented large code architecture refactors, reducing code duplication and circular dependencies

### Mobile Applications Developer

MAY 2018 - AUG 2018

#### TD Bank Group

- Worked in cross-platform team to develop workspace IoT app in **Java**, reducing time needed for employees to do booking tasks by over 90%
- Integrated **Firebase** Realtime Database using **MVVM** architecture, allowing service layer to be swappable with alternative service providers
- Utilized latest **Android** architecture components like Data Binding, LiveData, and ViewModels to manage UI component data and lifecycles

## PROJECTS

### Data Runner

SEPT 2019

- Website for visualizations of running data with stats, charts, and heatmaps in **React**
- Built a RESTful API with **Mongo** database using **Node.js**, **Express**, and **Mongoose** to provide data to frontend
- Utilized JSON Web Tokens to handle user login and authentication

### OSS DanceFest

APR 2019

- Collaborated in a team to build **Android** app with **Kotlin** for a non-profit organization, allowing judges to score dancers and write notes offline
- Retrieved display data from **Firebase** with real-time updates

### I'm Napping

AUG 2018

- Created **Android** SMS app that automatically responds to incoming SMS messages, with support for custom messages by number
- Built in **Android Studio** with **Kotlin** with **MVP** app architecture and dependency injection principles for clean, maintainable code

## SKILLS

### Languages:

JavaScript, Python, Java, Kotlin, C++, Bash

### Frameworks:

React, Express, Mongoose

### Technologies:

AWS, Firebase, MongoDB, Node.js, Android Studio, Git

## EDUCATION

UNIVERSITY OF WATERLOO

### Candidate for Bachelor of Computer Science

2017 - Present

3.8 / 4 GPA

## AWARDS

### 2017 Faculty of Mathematics Scholarship

\$5,000 value

### Dean's List

(Fall 2018, Winter 2019)

>87% term average

## INTERESTS

### Running

Long distance runner, over 500km run over past year

### YouTube

Content creator with 800+ subscribers & 5 million views

### Android

ROM flashing, custom theme creation, and phone news