# Janujan Selvaratnam

### A driven problem solver with a passion for connected technologies.

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# **SKILLS**

**Programming** Python • C++ • C# • Matlab • SQL • HTML/CSS

**Technologies** Git • Django • Heroku • PostgreSQL • Bootstrap • REST

Management | Communication • Leadership • Agile • Critical Thinking

# **EXPERIENCE**

### System Evaluation Developer

### **Peraso Technologies**

**Sept 2017 - Dec 2017** 

♥ Toronto, Canada

- Developed scripts to fully characterize base-band chipset in Matlab
- Tracked thousands of IC parameters to improve product yield by 50%
- Built GUI to reduce human error during in-house qualification of chipsets
- Validated power consumption improvements with updated firmware settings using C

# RF Engineering Intern

### **Peraso Technologies**

🛗 January 2017 - April 2017

- ♥ Toronto, Canada
- Developed and tested driver settings to configure new IC state/transition for production testing using C
- Created a Python tool to normalize datasheet visualization for eval team
- Characterized system level performance of radio IC using Matlab
- Analyzed and updated data across products for data sheet releases

### **Embedded Software Developer**

#### Cognitive Systems Corp.

May 2016 - Aug 2016

Waterloo, Canada

- Developed driver code to implement frequency offset algorithm in C
- Created test framework to validate algorithm performance using Python
- Designed data visualization tool of carrier frequency offset map using Matlab

### Sensor Design Intern

### **BlackBerry Limited**

₩ Sept 2015 - Dec 2015

- ♥ Waterloo, Canada
- Performed full characterization of BlackBerry Radar sensor board
- Tuned TOF sensor for optimal performance in various environments
- Developed a C# desktop application to interface with sensor board and collect data

# **EDUCATION**

### BASc. Electrical Engineering, Honours Co-op

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**2018** 

♥ Waterloo, Canada

- Algorithms and Data Structures
- OOP Embedded Systems IOT
- Probability & Statistics
  Control Systems

# **PROJECTS**

#### **NBA MVP Tracker**

### Django • PostgreSQL • Heroku

Developed a real time web app to display NBA MVP rankings and handle API requests.

### Social Development Wearable

#### Arduino • C++ • Twilio API

## Jan 2018 - April 2018

Developed firmware for sensor data fusion and communication with server back-end.

### Lyricize

### Django • NLTK • Genius API

Developed a web app to analyze and present lyric metrics using NLP principles.

### Personal Website

### Bootstrap • HTML/CSS • Javascript

□ Dec 2018

Created a personal website to showcase portfolio and hobbies.

# **ACHIEVEMENTS**



### Photography

Shots featured on Spotify, Apple Music and radio promo campaigns.



### **Basketball Champions**

Intramural basketball champions at the University of Waterloo.