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

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
- Worked with DSP team to validate power consumption improvements with updated firmware settings

RF Engineering Intern

Peraso Technologies

January 2017 - April 2017

- ♥ Toronto, Canada
- Developed and tested driver settings to configure new IC states and transitions for production testing code base
- Created 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

m Sept 2015 - Dec 2015

- ♥ Waterloo, Canada
- Performed characterization of BlackBerry Radar sensor board for ranging
- 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

University of Waterloo

2018, Waterloo, Canada

- IOT Processing Embedded Systems
- OOP Probability Theory
- Algorithms and Data Structures

PROJECTS

NBA MVP Tracker

Django • PostgreSQL • Heroku

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

Raksha

Arduino • C++ • Twilio API

🛗 Jan 2018 - April 2018

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

Lyricize

Django • NLTK • Genius API

₩ Jan 2019

Developed a Django web-app to analyze and present song data using NLTK.

Personal Website

Bootstrap • HTML/CSS • Javascript

Created a personal website using Bootstrap and HTML/CSS.

EXTRACURRICULARS



ECE Design Days Volunteer

Mentored first year students at design competition



Team Member

Intramural basketball at uWaterloo