

# VIRAJ DAVE

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## SKILLS

**Programming:** C, Python, Java, Assembly, C++  
**Software:** Linux (moderate), Microsoft Office, IBM DataStage, IBM DataStudio, JIRA, Charles  
**Web Development:** HTML, CSS, SQL  
**Protocols & Standards:** TCP/IP, FTP, DHCP  
**General:** Git Version Control, BASH, Bootstrap

## EDUCATION

**Carleton University**, Ottawa, Ontario *September 2014 - Present*  
Bachelor of Engineering: Computer Systems Engineering *Anticipated: 2019*  
Relevant Courses: Operating Systems, Digital Electronics, Real-Time Concurrent Systems, Data Structures and Algorithms, Introductory Real-Time Systems, Object-Oriented Software Development, Software Design

## PROFESSIONAL EXPERIENCE

**Software Tester Co-Op** *September 2017 – Present*  
*You.i TV – Ottawa Headquarters, Ottawa, Ontario*

- Validating software functionality through exploratory testing methods such as scripts, and by manually testing the application.
- Communicating between the client, product analyst and the developers to ensure the expected result of the application is as intended in the application.
- Recording bugs through JIRA, specifically stating the steps to reproduce the bug, which platform did the bug occur on, the severity, and the expected and actual behaviour.
- Implementing changes to JSON files to manipulate the data and by using Charles, which is a proxy to monitor and apply the change to the application to ensure proper data handling.

**IT Analyst/Developer** *May 2017 – August 2017*  
*Canada Revenue Agency – Place De Ville, Ottawa, Ontario*

- Contributed to implementing a risk assessment analytics tool to identify businesses and individuals participating in tax avoidance which uses identity and relationship resolution methods.
- Designed and developed several ETL (Extract, Transform and Load) tasks using IBM DataStage which uses SQL to understand the data from the source and performing various transformations of the data to business requirements.
- Validated and tested several ETL algorithms using IBM DataStudio to query and filter the data sources, and manually perform the transforms to ensure the tasks were performing to their expected output.

## ENGINEERING PROJECTS

**Computer Automated Morning IoT Device**, Carleton University *January 2017 – April 2017*

- Designing, building and implementing an “Internet of Things” device to help one with morning routines such as waking up, controlling temperature and displaying weather and bus information.
- Responsible for implementation of Android application which will set the temperature of the room, set the alarm time, determining location and setting bus information from mobile app.

**Personal Website**, Carleton University *December 2016 – February 2017*

- Implementing and developing a personal website using HTML and CSS.
- Website features include projects, interests, work and volunteer experience.

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## **Tug of War Game on FPGA Board**, Carleton University *November 2016 – December 2016*

- Programmed and designed a 2 player game using Verilog HDL on an FPGA board.
- Responsible for designing test benches, to ensure complete functionality of the game.

## **TFTP File Transfer System**, Carleton University *May 2016 – June 2016*

- Successfully designed and produced a TFTP file transfer program in Java with a team of 5 individuals.
- Responsible for testing every scenario to ensure functionality and fixing errors due to testing in the program.

## **Carleton Engineering Competition**, Carleton University *October 2015 – November 2015*

- Competed and presented in a 12-hour engineering programming competition with a team of 4 individuals that finished in second place in the competition.
- Successfully implemented and designed a photo recognition software using Java to determine whether an image of a washer was acceptable.

## **LEADERSHIP EXPERIENCE**

### **IEEE Carleton – Networking Night Outreach Co-Coordinator** *September 2016 – February 2017*

- Advocating and advertising the conference to potential patrons to sponsor the event.
- Acting as a liaison between potential and confirmed patrons and the conference committee.

### **Carleton Student Engineering Society Council** *June 2015 – May 2016*

- Representative of Computer Systems Engineering Students on the Engineering Student Council.
- Attending council and faculty meetings, and representing student's opinion on course selection/changes as well as changes to the services offered by the society at those meetings.

### **2015 Relay For Life at Carleton University** *October 2014 – March 2015*

- Member of the Entertainment and Logistics Sub-Committee.
- Developed relationships through social media and partnerships to secure contracts for equipment (such as a stage, tables, and chairs.)

### **2014 Relay For Life at Maxwell Heights S.S** *February 2014 – June 2014*

- Head Event Chairperson.
- Organized and planned a school wide 12-hour fundraiser to raise funds for cancer research with 350 participants that raised over \$57,000.

### **Maxwell Heights S.S – Student Council** *January 2014 – March 2014*

- Planned and organized an Olympic themed event for over 300 students to celebrate the 2014 Winter Olympics which raised \$500 to the Canadian Cancer Society.
- Responsible for budgeting, financial reporting selling tickets, marketing and coordinating the event to ensure that it was going according to schedule.

## **AWARDS**

- Carleton University Scholarship for academic merit – June 2014
- Ontario Power Generation Award for high academic merit for engineering – June 2014
- Durham District School Board Student Distinction Award for leadership – April 2014
- DECA Regional Competition Top 10 in Sports and Entertainment Category – November 2013