ORI WIEGNER

(647)801-7105

wiegner.ori@gmail.com

https://github.com/WiegnerO

**EDUCATION**

**Honors Bachelor of Computer Science Jan 2018 - Present** Expected Graduation (January 2022)

*Lassonde Faculty of Electrical Engineering and Computer Science, York University, Toronto, ON*

* Golden Keys International Honors Society recipient; given to the top 15% of students in each faculty
* Awarded York University Academic Scholarship 2018, 2019; Awarded the Lassonde Undergraduate Research Award (LURA) 2019

**Bachelor of Science in Medical Radiation Sciences and Advanced Diploma Program Graduated June 2016**

*Faculty of Radiation Oncology, University of Toronto and Michener Institute of Applied Science, Toronto ON*

● Graduated this program November 2016

● Successfully completed the CAMRT board exam (MRT(T)) to become a licensed Radiation Therapist

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**RELEVANT EXPERIENCE**

**Software Developer May 2019 – Nov 2019**

*Lassonde school of Engineering York University, Toronto, ON.*

* Worked with York Professor Suprakash Datta on an abstract “Automatic Labeling of Lung tumors in CT Scans” and presented findings in the Lassonde Undergraduate Summer Student Research Conference
* Utilized image processing and machine learning algorithms (Support Vector Machines) to automatically process CT scans in order to detect and flag lung tumors with an accuracy of 75% on the testing data
* The solution was written in Python and used various libraries such as OpenCV, SciPy, sklearn, Pandas

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**RELEVANT PROJECTS**

**Friend Request – Java Android App -** [friendrequest.ca](https://friendrequest.ca/) **July 2017 – Feb 2019**

* Co-Created a mobile application called Friend Request which is an aggregator of social media accounts using Java
* Currently hosted on Amazon Web servers supporting 120 users around the world
* Was responsible for developing key features such as the search bar function, user profile layout and the landing page

**Country Guessing Game - Java Android App -** https://github.com/WiegnerO/Caps **Dec 2018**

* Developed an Android mobile application in Java and implemented the front end and back end using an MVC design pattern
* The application was implemented using the i2c API
* Users must correctly guess a country or its capital when given clues; the users scores were tracked and placed in a leaderboard

**Brandon Ben Music - Web Front End -** [brandonbenmusic.ca](http://brandonbenmusic.ca/) **Jan 2018 – Feb 2019**

* Designed a website for a musician allowing fans to listen to music, view photos, see upcoming performances and contact
* The website is responsive changing format based on the user’s device
* The website was developed using HTML5, CSS3 and Javascript and is currently hosted on GoDaddy servers

**Note Encryption – Java Android App-** https://github.com/WiegnerO/KrytpoNote **Nov 2018**

* Developed an Android mobile application in Java and implemented the front end and back end using an MVC design pattern
* Allows users to encrypt and decrypt notes such as passwords or sensitive information; users have the option to save the notes on their devices which can be retrieved later
* The encryption was implemented with a Vigenère cipher encryption algorithm

**Cumulative Project – C programming Nov 2019**

* Self -taught C language by developing a C program where a user can create multiple alarms via command line arguments
* When an alarm is created the user can delete, update, or check the time left of the alarms using different commands
* Using the POSIX library each newly created alarm is placed in its own thread, semaphores and other synchronization tools were used to prevent race condition among the multiple threads

**Simulation of RISC-V CPU using Verilog Hardware Design**   **March 2019**

* Designed software CPU which consisted of ALU, Decoder, ROM, PC,RAM modules written in Verilog using Intel Quartus Prime software
* Created an ALU capable of implementing different RISC-V functions such as load/read word, shift logical left immediate, branch if equal, and multiple arithmetic functions OR, XOR, Add , Subtract
* The system supports taking in machine language inputs and would compile them into the corresponding RISC-V instruction to perform which the CPU can use

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**TECHNICAL SKILLS**

* **Languages:** Java, JavaScript, PHP, Python 3, CSS3, HTML5, JSON, XML Ruby, C, BASH , AWK, Verilog, SQL
* **Software/Tools:** Github, Android Studio, Quartus Prime, Wordpress tools, MS Office, Jupyter Notebook, Spyder

**OTHER EXPERIENCES**

**Medical Administrator May 2018 – Present**

*Atkinson Medical Centre, Thornhill, ON.*

* Medical administrator for 5 physicians; responsible for liaising with patients and communicating critical information including patient appointments, follow ups and urgent next steps
* Improved intake process by creating a form which helped office staff record and share patient information in an organized fashion
* Maintained and updated patient medical charts, lab reports, and correspondences

**BEST Lab International Experiential learning May 2019**

*Technion Israel Institute of Technology , Israel*

* Selected by the university to participate in a 4-week intensive entrepreneurship training program with 18 other York students
* Received 1st place award at the Technion University Start-Up Business Competition by a panel of venture capitalists, the ranking in the competition was based on the participants start up idea and business model
* Collaborated in a team to develop a layout for a mobile app that aids women during their mensuration period by providing important information

**Bethune Peer Tutor Jan 2019 – Nov 2019**

*York University, Toronto, ON.*

* Responsible for tutoring 12 York students in university level math and computer science courses
* Participated in a leadership course “Introduction to Peer Leadership” which emphasised and refined communication and leadership skills

**Radiation Therapist Clinical Placement Sept 2015 – July 2016**

*Princess Margaret Hospital, Toronto, ON.*

* Completed 1600 hours of clinical placement which required learning and operating technical equipment used for cancer treatment including linear accelerators and CT scanners
* Worked in an interdisciplinary environment with other healthcare workers such as nurses, oncologists, occupational therapists, physiotherapists
* Educated and supported patients during the radiation treatment process.
* Provided solutions for dealing with radiation induced side effects and incorporated principles of patient centered care when interacting with patients.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**PERSONAL ACCOMPLISHMENTS**

**Stand-up comedy writing**

* Strengthen my improvisation, public speaking , presentation skills through creating and performing stand up routines
* Performed stand-up routines at in multiple venues during amateur mic night such as Einstein’s , The Corner Comedy Club
* Attended the 2019 Toronto comedy brawl and came in 4th place out of 12 contestants