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 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

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

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

- 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

appointments, follow ups and urgent next steps

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

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