

COMPUTER ENGINEERING

SKILLS SUMMARY

SOFTWARE

- Python
- HTML/ CSS
- C
- VHDL
- Confluence
- Microsoft Office
- CMS
- SQL
- JavaScript
- Java
- JIRA
- Siteimprove
- Git
- Firebase

HARDWARE

- Oscilloscope, Multi-meter, Function generator
- FPGA
- Arduino Uno

KEY COURSES

- Data Structures and Algorithms
- Microprocessor Systems
- Digital/Software Systems
- Electronic Circuits/Networks

EDUCATION

Ryerson University
BACHELOR OF ENGINEERING
Computer Engineering
Expected Completion: April 2021

ACCOMPLISHMENTS

- Bell IT Business Case Competition, 1st Place
- Ryerson Engineering Competition 3rd Place Programming Award
- Recipient of Engineering Academic Achievement Scholarship


CERTIFICATIONS

- CCNA1(Cisco Certified Network Associate)
- CCNA2
- WHMIS/EHS
- Emergency First Aid with CPR A


INTERESTS


- New and innovative technology
- Competing in Hackathons
- Basketball Enthusiast

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WRICHIEK KAR

PROFESSIONAL EXPERIENCE

Project Manager/Web Developer | Bell Canada

May 2019 – August 2019

- Managed a team by using JIRA to create a backlog and track user story progress
- Tackled major defects on bell.ca across 1,900+ pages and completed fixes for 10,000+ issues
- Built proof of concepts for voice assistant development tools such as structured data, DialogFlow, and IBM Watson, in order to facilitate future roll-out
- Created a conversational Slackbot capable of posting extracted data from a repository, and emailing reports

Fibre-Optic Technician | Bell Canada

May 2018 – September 2018

- Installed, maintained, and repaired telecommunications equipment, products and services, while achieving a 100%+ quality-effectiveness score
- Resolved complex products and system issues using EXFO Power Meter and digital multi-meter
- Provided an exceptional customer experience for small-businesses and homeowners

Engineering Student Ambassador | Ryerson University

September 2018 – December 2018

- Represented Ryerson Engineering at on- and off-campus recruitment events
- Led tours and promoted Ryerson at events such as the Ontario University Fair (attendance of 100,000+ students)

PROJECTS

Slackbot

August 2019

Created a conversational bot using a Slack app and incorporating multiple API's such as RTM (Real Time Messaging) and files.upload. It was designed to request data at any point in time and have an up-to-date report. When prompted, it ran a script to scrape Siteimprove for updated data.

The Source Business Case, 1st Place

July 2019

Led a team to provide a solution regarding a corporate opportunity. Created a Loyalty Program which incentivized future purchases. Designed and implemented a public and authenticated website using HTML, CSS, JavaScript, and Bootstrap. User authentication was created using a real-time database. Once a login is attempted, a request is sent to the database verifying the credentials.

Microprocessor

December 2018

Programmed latches, an Arithmetic Logic Unit, a Control Unit (contained a Finite State Machine and a 4x16 Decoder), using VHDL. The microprocessor was designed to be able to perform basic arithmetic functions using an FPGA board. The overall output was then displayed on a seven-segment display.

Ryerson Engineering Competition, 3rd Place

November 2018

Led a team which created a web application designed to help those in need with suicide prevention. Used HTML, CSS and Google DialogFlow to create a chatbot. It was tailored towards suicide prevention with custom responses by using common phrases and machine learning.

Robotic Arm

May 2017

Created a custom robotic arm using an Arduino to control movements, allowing it to move at 3 critical points (base, lever arm, and claw). Designed all parts on AutoCAD and used a 3D printer. This led to lowered cost and reduced weight.

EXTRACURRICULAR

Director of Operations and Marketing | IEEE Ryerson Chapter

September 2019 – Current

- Organize events for the faculty, including Hacker Cups, Alumni Industry Nights, Tutorials, etc.
- Reach out to vendors and clubs to enhance relations and optimize collaboration efforts

Hardware Engineer | Ryerson Formula Racing

September 2018 – April 2019

- Programmed sensors for vehicle data collection using SAM C21 Xplained Pro
- Researched and sourced suitable parts for microprocessors considering efficiency, price and simplicity
- Work alongside cross-functional teams to ensure product efficiency and optimize performance