WRICHIEK KAR

COMPUTER ENGINEERING

SKILLS SUMMARY

SOFTWARE

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

HARDWARE

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

KEY COURSES

- Data Structures and Algorithms
- Object Oriented Analysis Design
- Digital Systems
- Software Systems
- Microprocessor Systems

EDUCATION

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

CERTIFICATIONS

- Engineering Academic Achievement Scholarship
- CCNA1 (Cisco Certified Network Associate)
- CCNA2
- WHMIS
- EHS (Environmental Health and Safety)
- Emergency First Aid with CPR A

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PROFESSIONAL EXPERIENCE

Project Manager/Software 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

Engineering Student Ambassador | Ryerson University *September 2018 – March 2019*

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

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

ACCOMPLISHMENTS

Creative Design Winner, FastDr. – Full Stack Developer *September 2019*

Competed in AmpHacks to create a Web Application called FastDr. It was designed to calculate the fastest time to get assessed by a doctor in an ER from current location. Used Python to scrape data from websites and created an algorithm to calculate lowest cost function. Utilized Flask to connect python backend to HTML, CSS, and JavaScript frontend.

1st Place, The Source Business Case – Web Developer *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.

3rd Place, Ryerson Engineering Competition – Web Developer *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.

PROJECTS

Slackbot *August 2019*

Created a conversational bot using a Slack app and incorporating multiple API's such as 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.

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.

EXTRACURRICULAR

Director of Operations and Marketing | IEEE Ryerson Chapter *September 2019 – Current*

- Organize events for the faculty, including coding competitions, 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