

WRICHIEK KAR

Computer Engineering Student

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CONTACT

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SKILLS SUMMARY

- Python
- Java
- SQL
- HTML/CSS
- XML
- CMS
- C++
- C#
- C
- Git
- WPF
- JIRA

RELEVANT COURSEWORK

- Data Structures and Algorithms
- Object Oriented Analysis Design
- Operating Systems
- Computer Organization and Architecture
- Digital Systems
- Software Systems
- Microprocessor Systems

EDUCATION

Ryerson University
BACHELOR OF ENGINEERING
Computer Engineering
Expected Completion: April 2022

CERTIFICATIONS

- Dean's List (GPA 3.5+)
- Engineering Academic Achievement Scholarship
- CCNA1 (Cisco Certified Network Associate)
- CCNA2
- WHMIS
- EHS (Environmental Health and Safety)
- Emergency First Aid with CPR A

PROFESSIONAL EXPERIENCE

Software Engineer Intern | Advanced Micro Devices (AMD)

May 2020 – Current

- Added numerous power analysis features using C++, C#, and WPF (Windows Presentation Foundation) to software critical in designing new GPUs, utilized across teams worldwide
- Build software for data transmission from FTDI FPGA using propriety protocols (SVI2) over UART
- Maintenance and support of power analysis software including refactoring software, and allowing integration with latest GPUs

Project Manager/Software Developer Intern | Bell Canada

May 2019 – August 2019

- Tackled major defects on bell.ca across 1,900+ pages and completed fixes for 10,000+ issues
- Proposed and implemented structured data across 8,000+ pages support pages
- Built proof of concepts for voice assistant development tools such as structured data, DialogFlow, and IBM Watson, in order to facilitate future roll-out
- Effectively managed a team by using JIRA to create a backlog and track user story progress

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

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 from your 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, Firebase. 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 an NLP based chatbot. It was tailored towards suicide prevention with custom responses by creating intents and entities, 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 – April 2020

- 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