

# WRICHIEK KAR

## Computer Engineering Student

Toronto, ON, Canada

### CONTACT

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### SKILLS SUMMARY

- Python
- Java
- Kotlin
- React
- HTML5/CSS
- XML
- CMS
- C++
- C#
- C
- SQL
- 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

### PROFESSIONAL EXPERIENCE

#### Software Development Engineer Intern | Amazon Canada

June 2021 – August 2021

- Researched and designed feature architecture to enhance functionality to an organizational wide product
- Developed REST APIs to access data from multiple backend services and DynamoDB using Kotlin
- Built front-end features for data aggregation, utilizing existing services through new APIs using React

#### Software Engineer Intern | Advanced Micro Devices

May 2020 – April 2021

- Added numerous power analysis features using C++, C#, and WPF (Windows Presentation Foundation) to software critical in designing new GPUs, utilized across teams worldwide
- Built software for data transmission from FTDI FPGA using propriety protocols (SVI2) over UART
- Maintained and supported 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

### 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.

#### 1<sup>st</sup> 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.

#### 3<sup>rd</sup> 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

#### EDUBot

May 2021

Built an educational chatbot using natural language processing that helps students navigate through all modules in their canvas classroom. This includes having the ability to search for a phrase from pdf or handwritten notes using Google Vision. This user experience was designed with flask.

#### 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.

### 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