KOUTHAR WALED

Computer Science student with a love for ideation, iteration, and innovation.

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WORK EXPERIENCE

KUKA Robotics
Mobile Product Manager & Software Developer
May 2019 – August 2019

- Designed, developed, and **shipped** a Human-Machine interface for iOS, showcased to **5000+** customers, gaining sales leads for KUKA Robotics Canada.
- Developed product specifications and implemented features for the Human-Machine Interface in **Swift** with a dynamic UI to ease wireless customer robot communication from a REST based robot application.
- Spearheaded initiative to organise early stage product creation process: designed, developed, iterated upon a **customer focused** end-to-end product development protocol to be used by teams of **4-10** sales representatives, project managers, and engineers for **nationally** based products.
- Wrote effective and concise user oriented documentation and manual with custom diagrams.

FIRST Robotics Canada
Project Coordinator Intern
November 2017 – February 2019

- **Designed, developed and shipped** a series of open-source Robotics **Java** Tutorials
explaining robot mechanisms and sensor applications, available to **150+** FIRST Robotics teams with **1500+** views since January 1st, 2019.
- Prioritized and developed specifications for tutorial production and content.

LEADERSHIP

Hack the North
Sponsorship Coordinator
February 2019 – Present

- Iterated upon and launched an improved sponsorship package, analysing and extrapolating sponsor needs and wants.
- Raised **$XXXk+** to accomodate for **50% growth** of the event.
- Created forecast for leads and deals to predict progress to raise money for 1500+ attendees.
- Led initiative to organize for involvement of **65+** sponsors in diversity and inclusion activities.

LEGO Robotics without Borders
Founder, Lead
March 2017 – September 2018

- Led sponsorship, raising **$4,000** for materials and camps.
- Distributed LEGO Robotics kits and laptops to **63** underprivileged and under-served youth in **Morocco, Peru, and Canada.**
- Implemented infrastructure to allow program to grow to **80+** students.

PROJECTS

FIRST Robotics Competition Projects
September 2015 – Present

- Led mentorship for programming on a Rookie team in 2017/2018 which **won Ontario Provincial Championships** and was ranked **highest Rookie seed of 400+ teams**.
- Utilized motor controllers, pneumatics, encoders, analog, digital ultrasonic, colour and **LIDAR** sensors **CAN bus systems**, and **PID loops** using the FIRST Robotics Competition, and Cross the Road Electronics APIs on a team in **Java**.

SKILLS

Languages

- Java, Swift, C++, C, Scheme (Racket), Python

Tools, Frameworks, Data

- JIRA, PostgreSQL, JSON, REST, Git, JavaFX, Cross the Road

Computer Tools and Skills

- MS Power BI, Technical Writing, Excel, GSuite tools, Linux, MacOS, Windows

Additional Skills

- Written and oral communication, collaboration, prioritization

AWARDS

LORAN Semi-Finalist
November 2017

- Rewarded to individuals with **outstanding community involvement and impact.**
- **Top 7% of over 5,000** applicants around Canada.

Breakthrough Junior Challenge
October 2017

- Created video explaining the **neuroscience of learning**.
- **Top 5% of over 3,000** applicants around the world.

LANGUAGES

- **High Proficiency:** English, French, Arabic
- **Elementary Proficiency:** Spanish, Japanese

EDUCATION

Candidate for Bachelor of Computer Science
University of Waterloo
September 2018 – April 2023

- President's Honour of Distinction
- Residence Life Don

INTERESTS & ACTIVITIES

Volunteering, Tutoring, Swimming, Drawing, Painting, Singing