KOUTHAR WALED

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

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WORK EXPERIENCE

KUKA Robotics

Robotics Product Manager/Software Developer

May 2019 - Present

- Spearheaded initiative to organise product creation process: designed, developed, iterated a customer focused product life-cycle protocol to be used by teams of 4-10 sales representatives, project managers, and engineers for nationally based products.
- Developed and tested a HMI in Swift with a dynamic UI responding to updates from a REST based robot application showcased to 5000+ customers, gaining sales leads for KUKA Robotics Canada.
- Wrote effective and concise **user oriented documentation and manual** with custom diagrams
- Designed specifications and developed application for automated LEGO assembly and dis-assembly robot showcasing compliance and accuracy within 0.5mm.

FIRST Robotics Canada

Project Coordinator Intern

November 2017 - February 2019

- Designed, developed and launched a series of Robotics Java Tutorials
 explaining robot mechanisms and sensor applications, available to 150+ FIRST
 Robotics teams with 700+ views since January 1st, 2019.
- Spoke as a Webinar panelist about **command-based/object-oriented robot programming**, assisting **100** people and their teams.

PROJECTS

FIRST Robotics Competition Projects

September 2015 - Present

- 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.
- 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.

LEADERSHIP

Hack the North

Sponsorship Coordinator

February 2019 - Present

- Iterated and launched an improved sponsorship package, analysing and extrapolating sponsor needs and wants.
- Raised \$120k+ to accommodate 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

- Ontario, Morocco, Peru
- 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.
- $\bullet \;$ Implemented infrastructure to allow program to grow to 80+ students.

EDUCATION

Candidate for Bachelor of Computer Science,

University of Waterloo

September 2018 - April 2023

- President's Honour of Distinction
- Residence Life Don

TECHNICAL SKILLS

Languages

• Java, Swift, C, Scheme (Racket), Python

Tools, Frameworks, Data

 Git, JIRA, JavaFX, Cross the Road Electronics, WPiLib, Reddit Praw API, RoboticsAPI, REST, PostGre SQL, JSON

Computer Tools and Skills

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

LANGUAGES

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

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 with over 580 views
- Top 5% of over 3,000 applicants around the world.

INTERESTS & ACTIVITIES

Swimming — Drawing — Painting — Singing — Volunteering — Tutoring