

# Muhammad Raffay Shahid

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## SKILLS

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**Languages:** Python, C, C++, Scheme, Swift, JavaScript, HTML, CSS

**Tools:** Git, PHP, MySQL, XCode

## EXPERIENCES

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**Director Research and Finance, Ride for Life**

*Aug 2017 – Present*

- Built an application in **C** that distributed families in a list according to their water intake requirements to distribute H2O wheels in Tharparkar, Pakistan
- Fundraised **\$10000** from various public and corporate sources which were used to fund projects to provide access to clean drinking water to underprivileged societies in Pakistan

**Junior iOS Developer, Harvard's Lakshmi Mittal South Asian Institute**

*December 2020 – Present*

- Created an **iOS application** that pertains to streamlining the Lahori tourist experience
- Funded by Harvard University's Lakshmi Mittal South Asian Institute

**IT Intern, CARE Foundation**

*June 2018*

- Interned in the IT department at CARE Foundation, an NGO that helps provide **300,000+** students access to quality education (Largest NGO in Pakistan)
- Taught the basics of Computer Science to children in underprivileged schools
- Wrote a research paper that compared **Artificial Intelligence** and Human Intelligence to help students understand the importance of AI in the near future

**Director Operations, Innoventions'19 and JTMUN V**

*November 2019*

- Constructed the event registration websites using **HTML, CSS** and **JavaScript**
- Directed the operations team on two of the school's flagship events attended by an average of **500+** delegates.

**Project Developer, Fundraiser for Jeevan Hannah Government School**

*Jan 2017–Apr 2017*

- Designed a fundraising page using **Classy** to gather and manage donor data
- Fundraised over **\$1000** which were directed towards the fulfillment of students' academic needs

**Event Head, GT Kaleidoscope**

*Sept 2017– Oct 2017*

- Organized Pakistan's **largest** high school science Olympiad
- Coordinated with sponsors, delegates and school administration to ensure smooth operation.
- Initiated social event in Kaleidoscope, named 'Reach Out,' which was aimed to provide students from underprivileged schools clothes, books

## PROJECTS / AWARDS

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**Outstanding Performance, National Stem School Maker's Summer Camp 2019**

- Programmed an Arduino in **C++** to create Pakistan's first semi-autonomous wheelchair using an ultrasonic sensor

**Top 20, CERN BL4S**

- Designed an experiment to be carried out at DESY, a particle accelerator in Germany
- Shortlisted in the top 20 out of **180+** teams globally; Implemented Birks Law using **Scheme**

## EDUCATION

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**Bachelor of Computer Science, University of Waterloo**

*Sept 2020 – Apr 2025*

**Bachelor of Business Administration (Double Degree), Wilfrid Laurier University**

*Sept 2020 – Apr 2025*

- Cumulative GPA: **88%**