

Muhammad Raffay Shahid

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TECHNICAL SKILLS

Programming Languages: Python, R, Java, C/C++, Swift, JavaScript, Scheme, SQL, HTML/CSS
Frameworks/Tools: Django, MongoDB, Bootstrap, AWS, Git, Jira, Linux, Unix

EXPERIENCE

- Ford Motor Company**
Software Developer Intern

Jan 2022 – Present
Ottawa, Canada
- Facedrive Inc**
Software Engineering Intern

May 2021 – Aug 2021
Toronto, Canada

 - Designed firmware for fitness wearable on **NRF52** microcontroller using embedded C. Created **drivers** for **temperature, pulse oximeter, accelerometer & OLED**
 - Optimized display driver decreasing code latency by **30%**
- Realtor Panel**
Software Engineer

Dec 2021 – Present
Toronto, Canada

 - Enhanced website for real estate company using **HTML/CSS, Javascript, Bootstrap & Django**.
- Ride for Life**
Director Research and Finance

Aug 2017 – Sept 2020
Lahore, Pakistan

 - Designed website for NGO from scratch using **HTML/CSS, Javascript, Bootstrap & Django**.
 - 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

PROJECTS / AWARDS

- Personal Website, raffayshahid.com**
 - Designed Personal Portfolio website from scratch using **HTML/CSS, Javascript & Bootstrap**.
- URL Shortener**
 - Designed the backend of a URL shortener using **Python**.

- 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**

LEADERSHIP

- Innoventions'19 and JTMUN V**
Director Operations

November 2019
Lahore, Pakistan

 - Constructed the event registration websites using **HTML, CSS, and JavaScript** for the frontend and **MySQL** for the backend
 - Directed the **operations team** on two of the school's flagship events attended by an average of **500+** delegates
- GT Kaleidoscope**
Event Head

November 2019
Lahore, Pakistan

 - 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

EDUCATION

- University of Waterloo & Wilfrid Laurier University**
BCS/BBA Computer Science and Business Administration (Double Degree)

Sept 2020 – Present
Waterloo, Canada

 - Awards:** President's Scholarship of Distinction, Term Distinctions
 - Interests:** Exercising, Automation, Financial Markets, Spikeball, Football, Videography/Cinematography, Hip Hop