

MUJTABA REHMAN

Waterloo, ON

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Technical Skills

Programming/Markup Languages: JavaScript, C++, C, Python, R, Rust | HTML, CSS, Markdown, \LaTeX

Technologies: Git, GitHub, Jupyter Notebook, Selenium, Linux, GBD, Valgrind, SolidWorks, CAD

Personal Projects

Chess Engine | C++, UML

- Contributed to the development of a graphical chess engine in a team of three, using C++ and X11 forwarding with a complete chess rule set and four levels of computer difficulty.
- Collaborated to design the software and delegate coding tasks, successfully merging over 3000 lines of code.
- Utilized object-oriented programming practices and design patterns such as Model-View-Controller to implement a scalable and modular software architecture.

Personal Website | JavaScript, HTML, XML, CSS, Jekyll

- Designed and built a personal website using HTML and CSS, with the goal of documenting personal projects.
- Leveraged YAML and Jekyll to efficiently manage and structure site content for optimal presentation and easy maintenance, hosted on GitHub Pages.
- Embedded a four-function calculator developed with JavaScript.

Linux Text Editor | C, Linux

- Created a lightweight text editor in C, designed for the Linux command line.
- Implemented functionality to open, write to, and save both existing and new text files, demonstrating proficiency in C programming and Linux development.

Quadcopter Flight Programming | Python, Sockets, Electronics

- Designed and assembled a quadcopter by soldering various components to a PCB.
- Developed custom flight missions and tricks using the DroneKit Python API on a Raspberry Pi, demonstrating proficiency in Python programming and aerial robotics.

Work Experience

Engineering Science Quest

May 2022 – August 2022

University Intern

Waterloo, ON

- Delivered and designed over 40 coding lessons to high school-aged students in multiple programming languages including Python, Arduino C, JavaScript, and HTML/CSS.
- Collaborated with a team to present a successful technology education showcase in front of the Ontario Minister of Education, which helped secure over \$100,000 in funding.
- Supervised a team of 10 volunteers and played a key role in program management and administration.
- Acted as a liaison between parents, children, and program supervisors, ensuring smooth communication and operation.

Volunteer Experience

Progressive Student Federation

February 2018 – July 2021

- Contributed to various initiatives aimed at promoting social justice and empowering marginalized communities, including book drives and free tutoring, in total impacting around 3000 thousand people over multiple projects.
- Managed a food distribution project, working collaboratively in a team to provide meals to the local community. Successfully raised funds and managed logistics for the operation, distributing over 400 meals to those in need.

Achievements

Student Council Head

- Elected as Head of Student Council in high school, represented the student body by leading several school-wide initiatives, including aiding in the transition online due to Covid.

Education

University of Waterloo

August 2021 – Present

Bachelor of Computer Science (BSC)

Waterloo, ON

- Relevant Coursework: Object-Oriented Programming, Sequential Programs, Digital Hardware, Statistics