Omar **AlAshqar**

1A COMPUTER ENGINEERING · UNIVERSITY OF WATERLOO

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Summary of Qualifications

- Careful attention to detail in design to ensure flawless grahics and code.
- Passionate for independent learning through research and projects to gain experience in the latest technologues
- Efficient work habits under deadlines in independent tasks and focused without supervision.
- Collaborative and productive in teams, providing effective contributions and leadership when necessary.

Skills

Languages   *Main:* Java, JavaScript, HTML/CSS | *Familiar with:* C#, C++, Python, PHP, Bash
Tools   LaTeX, Git/GitHub, Eclipse IDE, Vim, Atom | *Preprocessors:* HAML, SASS | *Libs and Frameworks:* jQuery, AngularJS
Design   Photoshop, Illustrator, InDesign

Relevant Experience

Team Member & Lead Programmer │ FIRST Robotics Team 6378 - LYNX   *Oct. 2016 - Jun. 2017*
- Programmed the robot using the FRC WPI Robotics Library in Java with feedback from external sensors and driver control.
- Prototyped and implemented various controllers to manipulate PWM based subsystems on the robot.
- Debugged and troubleshooted networking issues between the DriverStation software and the robot to optimize performance.
- Designed team logo and graphic assets based on team input; improved the team's popularity.

Additional Experience

Co-Founder & Tutor │ SLSS (High School) Code Club   *Oct. 2016 - Jun. 2017*
- Co-Founded and tutored the high school's first Computer Science club.
- Introduced new students to programming in Python/JavaScript and trained experienced programmers in Java with coding challenges.
- Assisted students seeking help with their computer science courses and personal projects.
- Participated in the 2017 ECCO programming contest as a team.

Graphic Designer │ Prep Doctors   *Aug. 2016 - Present*
- Handled design tasks for the production of logos, posters, book covers, and other marketing material; promoted the company through high quality aesthetics.
- Developed better time management and collaboration skills from coordinating with other teams from the company in the office.

Freelance Graphic Designer │ GPS Gates   *Jun. 2016 - Oct. 2016*
- Designed product information sheets for all of their products; improved their customers' experience.
- Improved communication skills with co-workers in order to iterate over material and meet deadlines.

Projects

2017   **Swift Elements** Dynamic periodic table web app that displays elements based on user input using jQuery.

2017   **No Chill** Crossy Road, a modernized Frogger, clone using Java. Features an endless game with random generation.

2016   **Arduino Robots** Assembled and programmed multiple robots using Arduino chips and componenets. The robots include an accelerometer controlled car and a maze-solving car.

2016   **SLSS Announce** Built a web app to host high school announcements with student and admin accounts to post announcements. The front-end uses HTML, CSS, and JS while the back-end utilizes PHP to communicate to a MySQL database where the posts are saved.

2016   **Library Manager** Developed a desktop library management system that tracks users' information, available, and booked-out material using Java for a CS course.

Education

Candidate for BASc in Honours Computer Engineering │ University of Waterloo   *2017 - 2022*

Ontario Secondary School Diploma │ Stephen Lewis Secondary School   *2013 - 2017*
- Graduated with an average of 94.5%.