

# Omar AlAshqar

1A COMPUTER ENGINEERING · UNIVERSITY OF WATERLOO

☎ (+1) 647-522-5761 | 🏠 20712864 | ✉ omar.alashqar@uwaterloo.ca | 🌐 www.omarashqar.me | 📄 omarashqar

## Summary of Qualifications

- Careful attention to detail in design to ensure flawless graphics and code.
- Passionate for independent learning through research and projects to gain experience in the latest technologies.
- Efficient work habits under deadlines for independent tasks and focused without supervision.
- Collaborative and productive in teams, providing effective contributions and leadership when necessary.
- Adaptive to different working environments and adept at communicating with colleagues.
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## 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.
- Collaborated with a team to develop the team website to enhance their online presence.

## Additional Experience

**Co-Founder & Tutor** | STEPHEN LEWIS SECONDARY 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.
- Tutored students one-on-one that are 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.

**Freelance Graphic Designer** | GPS GATES

Jun. 2016 - Oct. 2016

- Designed product information sheets for all of their products; improved their customers' experience.
- Coordinated with co-workers in order to iterate over materials and meet deadlines effectively.

## Projects

**Arduino Robots** Assembled and programmed multiple robots using Arduino chips and componenets. The robots include an accelerometer controlled car and a maze-solving car using components such as servos, controllers, and externanl sensors.

**SLSS Announce** Built a web app to host high school announcements with student and admin accounts. 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.

**Swift Elements** jQuery enabled web app that lists elements from the periodic table based on user input of names or symbols.

**No Chill** A Java clone of Crossy Road, a modernized version of Frogger. Features an endless game with random generation.

**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

- Achieved the University of Waterloo's President's Scholarship for academic excellence.