

Omar AlAshqar

1A COMPUTER ENGINEERING · UNIVERSITY OF WATERLOO

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Skills

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

Summary of Qualifications

- Strong web development experience with static and dynamic websites using **Jekyll** and some database management.
- 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.

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.

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 external 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.

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 coding 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.
- Prototyped a website using Jekyll with **HTML**, **SASS**, and **JavaScript**.

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.

Education

Candidate for BAsC in Honours Computer Engineering | UNIVERSITY OF WATERLOO

2017 - 2022

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