



Work Experience

May - August 2016

Software Developer in Test, Mappedin, Kitchener, ON.

- Automated over 200 manual regression and integration test cases using the Sahi Pro test runner with Javascript, resulting in a 50% increase in QA process efficiency.
- Pioneered the design and deployment of a server linked with Jenkins Continuous Integration that runs User Interface tests during every product build process.
- Used ECMAScript 6 Javascript (compiled with Babel and bundled using Webpack) with React.js, Node.js, and Express.js to fix front end and server side bugs, as well as implement new features to the Content Management System.
- Developed a Chrome extension to streamline error tracking and bug reporting for the internal client team.

Projects

August 2016

Node Login, bit.ly/nodelogin

- Used Node.js and Express.js to develop a user registration and authentication system, storing user data in a MongoDB database.
- Applied RESTful principles in designing an HTTP interface.

December 2015

Side-Scroller Game, bit.ly/amansidescroller

- Designed and built a fluid side-scrolling game using Java in which the player must collect some objects and avoid others while ensuring not to fall off the screen.
- Implemented the Runnable interface for multi-threaded functionality.

November 2015

"GooseRun" Game, bit.ly/gooserun

- Developed an infinite side-scrolling game for the Texas Instruments Launchpad microcontroller and Orbit BoosterPack attachment using C and the Energia IDE
- Actively participated in the Software Development Lifecycle including planning, design, implementation, and testing phases to ensure consistent application functionality

September 2015

C60, Hack the North 2015, bit.ly/C60HTN

- Designed and created a Pebble smartwatch application on the CloudPebble platform, using Javascript, the Pebble.js API and Firebase, that allows users to instantly add each other's information to their contacts list.
- Implemented critical application functionality by using the Haversine formula to calculate the distance between two latitude/longitude coordinate pairs.

January 2016

Miscellaneous Utilities, bit.ly/amanprojects

- "TextMe": Python application that employs Flask and the Twilio API to send and receive SMS messages via the Internet.
- "AvailableCourses": Python application that utilizes the University of Waterloo OpenData API and parses JSON to determine which Waterloo courses require an inputted course as a prerequisite.

Education

2015 - 2020

Candidate for **Honours Bachelor of Software Engineering**, University of Waterloo.