Aman Dureja

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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 testrunner 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 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, website
- 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 smarwatch 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.