

# Aman Dureja

software developer

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## Work Experience

**Mappedin** • Software Developer in Test Summer 2016 | Kitchener, ON

- **Increased QA process efficiency by 50%**, by automating **over 200** integration tests
- Developed crucial map design features, with impact reaching **over 11M users**
- Implemented new **CMS** features and bug fixes using **React.js** and **Node.js**
- Integrated internal application data with **MongoDB**, deployed applications using **AWS**
- Architected a server linked with **Jenkins CI** that automatically runs **UI tests** on builds
- Streamlined **error tracking** for **over 30 clients** by developing a **Chrome extension**
- Caught **over 50** bugs by designing **test suites** to evaluate the CMS and Kiosk apps
- Actively contributed to **planning, designing, developing, and deploying** new features

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## Projects

**Alexandria** • Hack the North 2016 • [bit.ly/alexandria-htn](http://bit.ly/alexandria-htn)

- Developed a **back-end application** that serves snippets from a library of over 50 000 public domain books
- Architected a scalable server using **Node.js**, **Express.js**, and the **Twilio API**
- Integrated **Firebase** for real-time updating of the book and user database
- Deployed the application on a **Google Cloud Platform** Compute Engine instance

**Side-Scroller Game** • [bit.ly/amansidescroller](http://bit.ly/amansidescroller)

- Used **object-oriented principles** to design and build a fluid, **multithreaded** side-scrolling game using **Java**, in which the player must collect some items and avoid others while ensuring not to fall off the screen

**GooseRun** • [bit.ly/gooserun](http://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**

**C60** • Hack the North 2015 • [bit.ly/C60HTN](http://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

**TextMe** • [bit.ly/textme-python](http://bit.ly/textme-python)

- Employed **Flask** with **Python** and the **Twilio API** to send and receive SMS messages via the Internet

**AvailableCourses** • [bit.ly/availablecourses](http://bit.ly/availablecourses)

- Utilized the University of Waterloo **OpenData API** with **Python**, and parsed **JSON** to determine which Waterloo courses require an inputted course as a prerequisite

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## Skills

### Languages

- JavaScript (ECMAScript 6)
- HTML5/CSS3
- Java
- Python
- C/C++
- SQL

### Technologies

- Git
- React.js
- Node.js
- Express.js
- Flask
- AWS
- Jenkins CI
- Firebase
- MongoDB

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## Education

### University of Waterloo

Honours Bachelor of  
Software Engineering  
2015 - 2020

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## Interests

- Music
- Guitar
- Cooking
- Fitness