

Emma DaPonte

Curriculum vitae

WORK EXPERIENCE

AUG 2016 - AUG 2017

Amec Foster Wheeler

Programmer/Technician

Worked in the project planning department analyzing existing systems and processes to provide streamlined solutions by leveraging technologies.

Created automated Excel reports and automated pre-existing Excel reports that incorporated both large sets of data from SQL Server databases and manual reports. Designed ETL processes and accompanying databases and analysis dashboards. Made user friendly interfaces with in-depth logs and error descriptions for maximum ease and efficiency.

Optimized and documented pre-existing programs, added features to other programs or reports, performed full stack web development and maintenance, and helped coworkers with technical issues.

PERSONAL PROJECTS

FALL 2017

Meteor/Node.js and React

Interactive Web App

Built a 3D cube with interactive buttons and menus that can be rotated using the arrow keys or swiping on mobile. Each side has unique content and expands when in focus. Functionalities include being able to send an email through the Node.js server, toggling between a min/max mode, and a dialog to manually increment the cube's rotation (accessible via a button or entering the Konami code).

The cube is built with Meteor and hosted on Heroku. Uses React components for the UI, CSS transform properties for the 3D look, and JavaScript for catching keyboard events. Currently implemented as a personal website at contentcube.herokuapp.com.

SUMMER 2017

Javascript and jQuery

Google Chrome Extension

Extension creating a small window with a preview of moused over links. Window follows the mouse and responds to keyboard commands such as freezing in place. Content displayed is tailored for the specific website, and code is structured to easily add previews for new websites. Currently works on Kijiji.ca by showing the exact address and clickable map when hovering over ads. Uses JavaScript with jQuery to generate the preview and respond to keyboard events. Download from chrome.google.com/webstore/search/dapodev.

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SKILL HIGHLIGHTS

GENERAL	Bash, C, Java, Git, Python, Subversion
WEB DEV	Bootstrap, HTML/CSS, JavaScript, jQuery, Meteor, Node.js, React
DATABASE	MongoDB, MySQL, NoSQL, Postgres
MICROSOFT	Access, Excel, Power BI, SQL Server Management Studio, VBA

EDUCATION

2011 - 2016	University of Toronto HONORS BACHELOR OF SCIENCE <i>Double Major in Computer Science and Math, with a Minor in Philosophy.</i>
2017	Udemy ONLINE COURSE <i>Completed course on Meteor and React, working through course on mobile app development.</i>

FAVORITE CLASSES

FALL 2015

Machine Learning

Studied many machine learning techniques such as logistic regression, naive Bayes, neural networks, and support vector machines. Wrote code to conduct experiments, using cross-validation to optimize each classifier's parameters.

WINTER 2015

Intro to Visual Computing

Used Python NumPy/SciPy to manipulate images, such as creating a program that applied a watercolor effect to photographs. Very interesting using code to replicate filters and functions found in image editing software.