

# Malcolm Mathew

3A Computer Engineering Candidate at the University of Waterloo  
malcolmmathew@gmail.com || malcolmmathew.github.io || (519) 998 6781 || github.com/malcolmmathew

---

## EXPERIENCE

### **PostBeyond, Toronto, ON | Backend Engineering**

January 2016 - May 2016

**Tools:** Python, Flask, Celery, SQLAlchemy, MongoDB, nosetests, Apiary, Swagger, AngularJS, Coffeescript

**Secondary Tools:** Docker, Alembic, AWS, pip, Git

Architected and built internal tools to mock a fake instance of the application that generated fake data on the fly.

Applied testing frameworks to apply full code coverage to the application's REST API and made bug fixes as a result of testing.

Migrated the application's API documentation from Apiary to Swagger and analyzed the entire REST layer to determine request parameters and expected outputs.

Applied bug fixes to client side admin tool and updated application's Facebook API to a newer version.

### **CIBC, Toronto, ON | Intermediate Application Developer**

May 2015 - August 2015

**Tools:** C#, ASP.NET MVC, Kendo UI, HTML, CSS, JavaScript, SVN

Designed, prototyped, and implemented a new planning feature for CIBC's Client Reporting Application.

Liaised with business development teams to determine specifications for the feature and advised on limitations.

Created Scatter Plot component for the application that brought direct analytical value to the executive team.

### **TDSB, Toronto, ON | Web Production Support**

September 2014 - December 2014

**Tools:** C#, VB, DNN

Maintained content for the TDSB's website using a CMS tool. Assisted departments with scripting tasks in Excel.

### **Tupelo Life, Dubai, UAE | Technical Assistant**

January 2014 - April 2014

**Tools:** HTML, CSS, JavaScript, Photoshop, Illustrator

Front-end design for the development team of Tupelo Life, a health & wellness wearable startup based in Dubai.

## EDUCATION

### **University of Waterloo, ON, Canada | B.A.Sc. Candidate for Computer Engineering**

September 2012 - June 2018

Relevant Courses: Data Structures and Algorithms, Operating Systems, Microprocessors, Compilers, etc.

## PROJECTS

### **Data Science | Analysis**

**Tools:** Python, pandas, numpy, matplotlib

Used data analysis and web scraping python modules to gather and analyse nutrition data and construct a meal plan based on user preferences.

### **Food Truck Event Scraper | Web Development**

**Tools:** Django, Bootstrap, Heroku

Created an application to scrape Food Festival event data and applied analysis to determine which food vendors would be present at each event. Deployed application.