

# Anthony Tse

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[www.github.com/tseanthony](http://www.github.com/tseanthony)

Education	<b>New York University</b> , Courant Institute of Mathematical Sciences Master of Science, Computer Science	Expected: May 2020 Current GPA: 3.7
	<b>Boston University</b> , Metropolitan College Undergraduate Certificate in Computer Science	Dec 2016 GPA: 3.8
	<b>University of Massachusetts Amherst</b> , College of Natural Sciences Bachelor of Science, Biochemistry and Molecular Biology	Dec 2013 GPA: 3.4
Technical Skills	Languages   Java, C++, Python, Swift, JavaScript, HTML, CSS, R Frameworks & Libraries   UIKit (iOS), ArcGIS, Spark, Stanford CoreNLP, Keras Software & IDE's   Git, Eclipse, CLion, PyCharm, RapidMiner	
Relevant Coursework	<ul style="list-style-type: none"><li>Algorithms</li><li>Data Structures</li><li>Databases Systems</li><li>Programming Languages</li><li>Big Data Science</li><li>Operating Systems</li><li>Computer Architecture</li><li>Machine Learning (<i>Audit, Spring '19</i>)</li></ul>	
Software Projects	<b>Prediction of NYC Rent Prices Using NYPD Complaint, 311 Service, and NYC Taxi Trip Datasets</b> <i>Course Project (Big Data Science)</i> <ul style="list-style-type: none"><li>Applied various data preparation methods and feature selections methods (variance threshold, correlation threshold, data discretization) in preprocessing of data.</li><li>Computed and evaluated predictions from an ARIMA, LSTM, and linear regression models.</li></ul>	
	<b>Clustering and Classification of News Articles Using NLP Libraries, K-Means, and KNN</b> <i>Course Work (Big Data Science) - <a href="https://github.com/tseanthony/bigdatascience">https://github.com/tseanthony/bigdatascience</a></i> <ul style="list-style-type: none"><li>Defined a set of terms used to define the documents using n-grams, and part-of-speech and named entity annotations.</li><li>Computed a term frequency inverse document frequency (TFIDF) matrix from given data.</li><li>Implemented k-means algorithm for clustering of the data and k-nearest neighbors to classify new documents. Performed dimensionality reduction with PCA to enable data visualization.</li></ul>	
	<b>Group Expense Management iOS App</b> <i>Personal Project - <a href="https://github.com/tseanthony/SplitBills">https://github.com/tseanthony/SplitBills</a></i> <ul style="list-style-type: none"><li>Used Xcode/Swift and the UIKit framework to construct a user interface and control user interaction within an IOS application</li></ul>	
Employment Experience	<b>OPKO Diagnostics, LLC</b> Woburn, MA Research Associate I & II	Jan 2015 – July 2018
	<ul style="list-style-type: none"><li>Developed a testosterone immunoassay for use in a point-of-care diagnostics platform.</li><li>Optimized reagent formulations and manufacturing processes to improve performance.</li><li>Planned and performed design-of-experiment studies to efficiently develop assay.</li><li>Authored standard operating procedures for the manufacturing of our product.</li></ul>	
	<b>Quality Control Laboratory Technician</b>	July 2014 – Jan 2015
	<ul style="list-style-type: none"><li>Qualified assay components by following standard operating procedures.</li><li>Trained QC technicians on test procedures and lab maintenance responsibilities.</li></ul>	
Certifications	AWS Certified Cloud Practitioner	June 2019
	Bloomberg Market Concepts	June 2019