I love applying my data science and machine learning knowledge along with my software and web development skills to solve complex technical and business problems with simple, efficient solutions. I am a strong thinker and decision maker. I take ownership, and I am obsessed with the customer. I love using data to deliver meaningful results that can move businesses forward with insights into future endeavours.

##### **Skills & Tools:**

* Pandas, Scipy, SKLearn, Tensorflow, Keras, PySpark, PostgreSQL, Matplotlib, Seaborn, Tableau, NLTK
* Python, Scrapy, BS4, Crawl, Jupyter, Anaconda, Java, CNN, KNN, LTSM, ML Metrics, PCA, Clustering
* Gensim, CLT, Calculus, Linear Algebra, Statistics, Bayes, Public-Speaking, Client-Facing, Leadership
* AWS, Docker, Git, SQL, UNIX, JavaScript, jQuery, AJAX, HTML/CSS, Heroku, Google Analytics, A/B Test

##### **Projects:**

###### [Arabic NLP: Topic Modelling] [Evolution of Islamic Law & Author Prediction](https://github.com/mmayet/evolution_of_law_and_predictions)

* Scraped ~.5M webpages to collect corpus, processed with NLTK, found categorical and temporal trends
* Genre prediction, pre-surveyed experts, insights into recommendations, AWS-Docker-pSQL

###### [NNs] [Digit Recognition w/ CNNs](https://github.com/mmayet/digit_recognition) [[Kaggle](https://www.kaggle.com/c/digit-recognizer)] [Time Series] [Predicting West Nile](https://github.com/mmayet/west_nile) [[Kaggle](https://www.kaggle.com/c/predict-west-nile-virus/)]

###### [NLP & Classification] [Advertising on Reddit](https://github.com/mmayet/advertise-on-reddit): r/mildlyinteresting and r/mildlyinfuriating

* Queried API for every post from two subreddits (3gb JSON), Tfidf titles, hypertuned models for accuracy
* Reviewed ensemble classifiers (trees & boost), interpreted feature weights, optimized for accuracy

###### [Regression] [Targeting Undervalued Properties & Maximizing Demanded Features](https://github.com/mmayet/predicting-home-prices-and-features/tree/master/Mud_Mayet_Project_2) [[Kaggle](https://www.kaggle.com/c/dsi-us-5-project-2-regression-challenge)]

* Defined solvable problem, cleaned data set, feature selection, found correlations, communicated results

##### **Work:**

###### Software Engineer, IBM Cloud — July 2016 - August 2018

* Configuring device networks, managing data collection, querying device topologies, GUI analytics
* Refining GUI analytics and understanding how to best provide data to the client
* Optimizing software solutions for increased and finer network coverage

###### Student Software Engineer, UCI Informatics — Winter 2015-16

* Querying Google Books API and stored professors preferences through custom login portal

###### Software Engineer Co-op, IBM IoT — Summer 2015

* Building custom server-side CSS preprocessor for Sass to efficiently support and display SVG’s
* Implementing multiple front-end and server-side web-admin features for IBM Jazz
* Enhancing a multitude of dojo widgets to be context-aware based on user configuration
* Developing for an enterprise-level code base with server builds, within an Agile environment

##### **Just For Fun:**

[LastQuake.herokuapp.com](http://lastquake.herokuapp.com/) | [ArabicTypist.com](http://arabictypist.com/%27) | [MMayet.github.io](http://mudmayet.herokuapp.com/)

##### **Education:**

* Informatics & Software Engineering B.S., UC Irvine Spring 2016
* Data Science Immersive, General Assembly Fall 2018