



# Witawat (Pae) Daungjaiboon

917-680-7842 [linkedin.com/in/dwitawat](https://www.linkedin.com/in/dwitawat) [dwitawat@gmail.com](mailto:dwitawat@gmail.com)  
5625 N Winthrop AVE Chicago, IL 60660

## Summary

2+ years of Data Science experience with strong technical and analytical background. Able to solve problems with creative solutions and producing effective data-driven strategies. A quick learner who can absorb new ideas and can communicate clearly and effectively.

## Education

**2014- 2016:**

**DePaul University, Chicago Illinois, United States**

Master of Science in Predictive Analytics

**2006- 2010:**

**King Mongkut's Institute of Technology Ladkrabang, Bangkok**

Bachelor of Engineering in Information Engineering

## Working Experience

**August 2016 - Present:**

**Loyola University Medical Center, Maywood Illinois**

*Healthcare Analytics Intern*

- Collaborate with residents to gather needs and requirements for multiple medical research publications
- Use R, SQL and Python(Pandas) to aggregate/clean wide variety healthcare databases with clinical coding system (ICD-9)
- Develop and validate predictive models for various healthcare problems facing hospitals and health systems
- Create and deliver write-up reports including data visualization/dashboards of findings for non-technical audiences using R, RShiny and Tableau

**June 2016 - September 2016:**

**YouBthere, Chicago Illinois**

*Predictive Analytics Intern*

- Led 2 analytics implementation projects
- Collectively conducted and implemented new student learning measurement formula to enhance student engagement and outcomes in fast-paced environment
- Designed and developed robust analytical and real-time reporting solutions based on YouBthere functionalities

**September 2014- September 2016:**

**DePaul University | College of Law, Chicago Illinois**

*Part-time Computer Support Technician*

- Developed digital signage, resulting to 20% reduction of paper usage across entire school
- Refined VDO editing workflow by 30% faster with more than 15% customer satisfactions
- Supported more than 500 users on all technological issues

**July 2010- December 2010:**

**KPMG Thailand, Bangkok**

*Information Technology Specialist*

- Managed troubleshooting both technical and logical issues for more than 500 users
- Implemented eAudit program and document management system for end-user
- Supported in-analysis of system setups and managed in-house applications

## Specialties

Healthcare, Data Visualization, Predictive Modeling Development/Validation, Knowledge Discovery, Hadoop, Hive, Pig, Tableau, Machine Learning, SQL, Data Manipulation, NoSQL, Time Series Analysis

## Skills

### Programming Languages:

Python, R, SQL, C, C++,  
Proficiency in Java, Java Script, Unix Shell Script

### Applications:

Tableau, Rstudio, RShiny, SAS, SPSS, SQL Developer, Microsoft office, MATLAB

## Class Projects

### Big Data and NoSQL Program:

Implemented/Designed the environment of NoSQL databases including MongoDB and Cassandra for multiple Big Data applications

### Programming Machine Learning Applications:

Developed recommender system using collaborative filtering and manipulated/preprocessed multiple sources data sets and implement various Machine Learning/Data Mining techniques for multiple domain applications using Python

### Data Visualization:

Created multiple insights of the Grocery data from dunnHumby using various data visualization tools including R, Tableau, and little exposure to d3.js. Successfully improved Data Visualization process by integrating Hive Server implemented on Amazon AWS with Tableau

### Database Processing for Large-Scale Analytics:

ETL large text files for Movie Trends Analysis using Python and SQL

### Time Series Analysis and Forecasting:

Implemented multiple statistical time series models (including AR, MA, GARCH-type, GARCH-M type etc.) to analyze/diagnose/forecast Apple stock values

### Advanced Data Mining:

Developed and comparing performance of multiple ensemble classifier techniques with different parameters to predict lung cancer using Matlab/R

### Mining Big Data:

Implemented Hadoop on Amazon AWS and developing MapReduce functions using Python to compare the run-time performance with Hive

### Advanced Data Analysis:

Used multi classification/clustering techniques to predict the presence of West Nile Virus in Chicago using R

### Regression Analysis:

Developed multiple regression models to predict Manhattan condominium price using R